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AGRICULTURAL LIBRARY NOTES



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BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D.C.

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No. 1

EDITORIAL NOTE

A brief list of the principal accessions to the Library has been included in the Official Record of the Department since it was first published in January, 1922. The economy program of the Government and the reduction in funds for printing having made necessary the discontinuance of the Record with vol. 12, no. 26, July 1, 1933, it has seemed desirable to provide some other medium to record the principal accessions to the Library. Some additional funds for mimeographing being available this year it is possible to resume publication of Agricultural Library Notes which was temporarily discontinued with the issue for June-October, 1932, vol. 7, no. 6-10. It has therefore been decided to include in it regularly not only the principal accessions to the Library but also two of the other lists formerly included in the Official Record, namely, the list of articles and written addresses by workers of the Department published in outside publications, and the list of extension publications. The list of mimeographed publications of the Department, formerly a feature of Agricultural Library Notes, and the list of bibliographies, will also be included. It is regretted that the list of experiment station publications and the list of new Department publications which appeared regularly in the Record can not be included in Agricultural Library Notes on account of lack of space and because separate lists of these publications are regularly issued by other offices of the Department. It will be seen that the character of Agricultural Library Notes has been changed considerably since it will hereafter be devoted principally to the lists specified. Whatever space is not needed for these particular lists will be used for other lists, miscellaneous notes, and brief articles such as were formerly included in Agricultural Library Notes. Each issue will be limited to twenty-four pages.

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Utah

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Address on the Farm bill by Henry A. Wallace. March 18, 12:46 P.M., through the National broadcasting company and its associate stations. 6 p.

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Statement by Secretary of agriculture Henry A. Wallace before the senate committee on agriculture and forestry, March 25, 1933. Necessity for powers vested in the administration by the Farm relief bill. 6 p.

Full text of a letter from Secretary of agriculture Henry A. Wallace, transmitting a report of the Forest Service, pursuant to Senate resolution 175 (72nd Congress, 1st session) March 28, 1933. 9 p.

Radio address by Secretary of agriculture Henry A. Wallace, Institute of public affairs, Columbia broadcasting system, 10:15 P.M., April 1, 1933, Washington, D. C. 10 p.

Address by Secretary of agriculture Henry A. Wallace over a national radio network of the NBC., May 1, (Monday) 1933, at 9:30 P.M., E.S.T. 14 p.

Wallace addresses national chamber. May 5, 1933 (Friday) 10:30 A.M. 3 p.
Press release about speech before Chamber of commerce of the United States.

Address by Secretary of agriculture Henry A. Wallace before the Franklin institute, Philadelphia, May 9, 1933. 9 p.

The purposes of the farm act. (A statement by Henry A. Wallace, in the New York Times, Sunday, June 4, 1933) 10 p.

The national wheat plan. A radio talk by Henry A. Wallace, delivered in the Department of agriculture period, National farm and home hour, Monday, June 19, 1933, and broadcast by a network of 48 associate NBC radio stations. 2 p.

Address by Secretary Wallace over Columbia broadcasting system, Monday, June 19, at 10:15 P.M. 6 p.

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* For list of bibliographies see pages 12-13.

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Speech by Dr. Rexford G. Tugwell, delivered at the eighth annual meeting of the
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A preliminary report. [By J. W. Wright and R. J. Cheatham] March 1933.
24 p. (Issued by Division of cotton marketing)

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sion of statistical and historical research)

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- Farm real estate taxes, 1913-1930. Delaware, Virginia, West Virginia, Florida and Idaho (a preliminary report) By Bushrod W. Allin, Donald Jackson, and Janet L. Weston. 2 p. (Issued by Division of agricultural finance)
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- Geographic distribution of staple lengths of American upland cotton - crops of 1928, 1929, and 1930. A preliminary report [By W. B. Lanham] 9 p. (Issued by Division of cotton marketing)
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- Meat cutting and pricing methods, by Arthus T. Edinger. 29 p. (Issued by Livestock, meats and wool division)
- Methods and costs of turkey production, 1931. By Marion Clawson. Feb. 1933. 25 p. (Issued by Division of farm management and costs)
- The outlook for manufactured dairy products. A statement presented at the National cooperative milk producers federation conference, San Francisco, California, October 3, 1932. By E. W. Gaumnitz. 5 p.
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In cooperation with Kentucky Agricultural experiment station.
- Standardization and inspection of farm products. By C. W. Kitchen, 8 p.
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- Suggestions for an ordinance to establish, locate, regulate, and maintain a public farmers' market, and for other purposes. Originally issued as Service and regulatory announcement - Markets - no. 69. Nov. 1921. Revised January 1933. 12 p.
- United States average farm prices of dairy products, 1910-1932. The revised series and the method of their revision. By Roger F. Hale and John B. Shepard. 11 p. (Division of crop and Livestock estimates)
- Use of outlook information in farm-business planning in the cotton belt. A preliminary report [By B. H. Thibodeaux and Oris V. Wells] 47 p.
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- World apple production and trade, by A. C. Edwards assisted by Hally H. Conrad. 98 p. Report F. S.-57. (Issued by Foreign agricultural service division)
- The world depression and its bearing on research, teaching and extension. By Nils A. Olsen. [1933] 8 p.
Address, joint session of the annual meeting of the Association of land grant colleges and universities, November 15, 1932, Washington, D. C.

Bureau of Biological Survey

- Reserving areas of land and water for wild life. An address by W. C. Henderson at the annual convention of the American institute of park executives, held in conjunction with the bicentennial conference on planning, parks, and local government, at the Willard Hotel, Washington, D. C., at 8:30 p.m., Monday, September 18, 1932. 8 p.

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Bureau of Chemistry and Soils

The chemical relationship of soil series and soil groups. By Horace G. Byers. 9 p.

The constitution of the inorganic soil colloids. By Horace G. Byers. 10 p. (Issued by Division of soil chemistry and physics)

Economic significance of the research program of the Bureau of chemistry and soils. 37 p.

Lectures on soil erosion: its extent and meaning and necessary measures of control; delivered in connection with the South Carolina teacher-training program, by H. H. Bennett. 27 p. (Issued by Soil erosion investigations)

Patent list: decaffeinating coffee. Compiled by V. A. Pease. 1933. 4 p. (Issued by Food research division)

Publications of the former Bureau of Soils [By A. G. Rice] 7 p.

Research the most important factor in the conservation and profitable utilization of farm products, by-products, surpluses, and of our soil resources. 130 p.

Results of 10 years of research: 1920-1930. 105 p.

A second index of patented mothproofing materials. By R. C. Roark. Feb. 1933. 109 p. (Issued by Insecticide division)

Soil erosion a costly farm evil, by H. H. Bennett. [Washington, 1933] 15 p. Presented before Farmers' week program, Ohio state university, Jan. 31, 1933.

Some recent accomplishments in dust explosion prevention of interest to engineers. Address by Dr. David J. Price before Hartford engineers' club, Hartford, Conn., Oct. 27, 1932. 6 p.

Variations in the amino acid content of the protein of different varieties of soybeans. By D. Breese Jones. 7 p. (Issued by Protein and nutrition division)

This paper was presented at the annual meeting of the American soybean association held in Washington, D. C., September 2 to 3, 1932.

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Office of Experiment Stations

The challenge to rural sociological research in the United States. By B. Youngblood. 16 p.

Paper prepared for presentation before the subsection of experiment station work of the Association of land-grant colleges and universities at its meeting in Washington, in November, 1932.

Home economics research at land-grant institutions, 1932-1933. Compiled by Sybil L. Smith. 12 p.

Report of progress in home economics research receiving federal support at land-grant institutions. 1931-32. Sybil L. Smith. 10 p.

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Extension Service

Cooperation with the press in extension education. Reuben Brigham. 7 p.
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Economic facts for the farm home. Assembled by Mary Rokahr. 34 p. Miscellaneous extension publication no. 7. (Issued by Office of cooperative extension work)

Effective extension circular letters: how to prepare and use them. By H. W. Gilbertson. 31 p. Miscellaneous extension publication no. 5. (Issued by Office of cooperative extension work)

Functions and activities of supervisors of county extension agents. By W. W. Clark and M. C. Wilson. Nov. 1932. 42 p. Extension service circular 179. (Issued by Office of cooperative extension work)

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Meeting the needs of older rural girls. Gertrude L. Warren. 10 p.
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- Outline for a course in agricultural extension education. By E. H. Shinn. 1933. 18 p. Extension service circular 185. (Issued by Office of cooperative extension work)
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- The relationship of age and other factors to enrollment and continuation in 4-H club work. Lucinda Crile. 29 p. Extension service circular 183. (Issued by Office of cooperative extension work)
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Grain Futures Administration

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Bureau of Home Economics

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Summary of home canning experiments showing effect of different times and temperatures of processing on the keeping quality of the canned foods. By Mabel C. Stienbarger. 11 p. (Issued by Foods and nutrition division)

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Avocado fruit spots and their control. By H. E. Stevens, and H. R. Beattie. 3 p. (Issued by Division of horticultural crops and diseases)

Bruising and freezing injury of apples in storage and transit. By Dean H. Rose... and J. M. Lutz. 6 p. (Contribution from Division of horticultural crops and diseases)

Celery mosaic in Florida and its control. By F. L. Wellman. 2 p. (Issued by Division of horticultural crops and diseases)

The Chippewa potato; a new variety. By C. F. Clark, William Stuart, and F. J. Stevenson. 3 p. (Issued by Division of horticultural crops and diseases)

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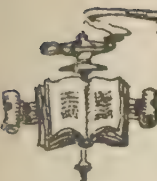
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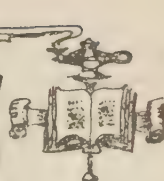
Bureau of Public Roads

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AGRICULTURAL LIBRARY NOTES

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No. 2

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Canning vegetables and fruits for winter. M. C. Doermann. (N. J. Agr. col. Ext. bul. 109) New Brunswick, 1933.

New York

- List of publications for general distribution issued by the Cornell University agricultural experiment station and the New York State colleges of agriculture and home economics. (N. Y. Agr. col. (Cornell) Ext. bul. 47, rev.) Ithaca, 1933.
The control of diseases and insects affecting vegetable crops. C. R. Crosby and C. Chupp. (N. Y. Agr. col. (Cornell) Ext. bul. 206, rev.) Ithaca, 1933.
Making cottage cheese at home. W. E. Ayres. (N. Y. Agr. col. (Cornell) Ext. bul. 255) Ithaca, 1933.

North Dakota

- Soft water and the farm cistern. C. L. Hamilton. (N. Dak. Agr. col. Ext. circ. 118) State College Station, Fargo, 1933.
Steer feeding. E. J. Thompson and V. T. Sander. (N. Dak. Agr. col. Ext. circ. 119) State College Station, Fargo, 1933.
Artificial incubation. G. P. Goodearl. (N. Dak. Agr. col. Ext. circ. 129) State College Station, Fargo, 1933.
Sweet clover, the best pasture crop. E. G. Booth. (N. Dak. Agr. col. Ext. circ. 121) State College Station, Fargo, 1933.

LIST OF STATE EXTENTION PUBLICATIONS RECEIVED DURING JULY, 1933
(cont'd)

Oklahoma

Nineteenth annual report of the Extension division, year 1932. D. P. Trent. (Okla. Agr. col. Ext. circ. 301) Stillwater [1933]

South Dakota

Selecting hens for egg production. O. J. Weisner and W. C. Tully. (S. Dak. Agr. col. Ext. circ. 333) Brookings, 1933.

Rural leaders' hand book. S. W. Jones. (S. Dak. Agr. col. Spec. Ext. circ. 30) Brookings, 1933. References, p. 9-13.

Feed for livestock. (S. Dak. Agr. col. Spec. Ext. circ. 31) Brookings, 1933.

Texas

Gully control. M. R. Bentley. (Tex. Agr. col. Ext. [bul.] B-80) College Station, 1932.

Utah

Pastures and alfalfa production. J. C. Hogenson. (Utah Agr. col. n. s. Ext. circ. 40, rev.) Logan, 1933.

Daily courtesies. W. D. Porter. (Utah Agr. col. n. s. Ext. Circ. 62) Logan, 1933.

Vermont

Eighteenth annual report of Cooperative extension work in agriculture and home economics, state of Vermont for year 1932. J. E. Carrigan. (Vt. Agr. col. Ext. bul. 18) Burlington, 1933.

Washington

Control of small fruit diseases and insect pests. L. K. Jones and A. J. Hanson. (Wash. State col. Ext. bul. 180) Pullman, 1933.

Canning fruits and vegetables. (Wash. State col. Ext. bul. 183) Pullman, 1933.

Preparation of fruits and vegetables in the home by drying and brining. (Wash. State col. Ext. bul. 184) Pullman, 1933.

The Washington laying house. M. W. Miller, and others. (Wash. State col. Ext. Poultry Pointers no. 11) Pullman, 1933.

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NOTES ON PERIODICALS

New

United States

- American fur trade. American fur trade pub. co., 188 West Randolph St., Chicago, mo. il. 4^o. v. 1, no. 1, Apr. 1933. \$2.00 a year. Incorporates Retail furrier, Fur styles and fashions, Fur farming in America, and International fur trade.
- American rose magazine. American rose society, Crescent and Mulberry Sts., Harrisburg, Pa. bi-mo. 4^o. v. 1, no. 1, Mar./Apr. 1933. To members of the society, 75¢ a year; to others, \$1.50. Supersedes American rose quarterly.
- Chrysanthemum society of America. Bulletin. Richmond, Ind. 4^o. v. 1, no. 1, Feb. 1933. quar. mimeogr.
- Econometrica. George Banta pub. co., 450 Ahnaip St., Menasha, Wis. quar. 4^o, v. 1, no. 1, Jan. 1933. \$7.00 a year.
- Fur breeders' journal. 206 East 42d St., New York, N. Y. mo. f^o. il. v. 1, no. 1, Oct. 1932. \$1.50 a year.
- Journal of chemical physics. Prince and Lemon Sts., Lancaster, Pa. mo. 4^o. v. 1, no. 1, Jan. 1933. \$10.00 a year.
- Louisiana farmer and dairyman. 3103 Government St., Baton Rouge, La. f^o. il. v. 1, no. 1, Apr. 1933. \$1.00 a year.
- Minnesota conservationist. Official magazine of the Minn. state department of conservation, State Office Building, St. Paul, Minn. \$1.00 a year. Continues Fins, feathers and fur.
- National Waltonian. Izaak Walton league of America. 222 N. Bank Drive, Chicago, Ill. mo. il. 4^o, v. 1, no. 1, July 1933. \$1.00 a year. Continues Outdoor America.
- Nebraska bird review. Myron H. Swenk, 410 North Thirty-seventh St., Lincoln, Neb. quar. 8^o. v. 1, no. 1, Jan. 1933. Free to members of Nebraska ornithologists' union; \$1.00 a year to others.
- Valley fruit grower. Winchester, Va. bi-mo. f^o. il. v. 1, no. 1, Feb. 1933. 75 cents a year.
- Western wild life. Billings, Mont. mo. 4^o. v. 1, no. 1, Jan. 1933. \$2.00 a year.

Foreign

- The Cactus journal. Cactus and succulent society of Great Britain. Pub. for the society by Blandford press, ltd., 43, Blandford St., London, W. 4^o. il. v. 1, no. 1, Sept. 1932. 1s. 6d. a copy.
- Dahlie; zeitschrift für die ostpreussische landwirtschaft. Landwirtschaftsverband Ostpreussen, Königsberg Pr. 2. il. f^o. jahrg. 1, nr. 1, Jan. 4, 1933.
- Economic bulletin of Netherlands India. Pub. by G. Kolff & co., Batavia, N. I. semi-mo. f^o. v. 1, no. 1, Mar. 16, 1933. Netherlands India, f 6.00 a year; other countries, f 7.50 a year. English ed. of Economisch weekblad voor Nederlandsch-Indie.
- Empire journal of experimental agriculture. Humphrey Milford, Oxford univ. press, Amen House, Warwick Sq., London, E. C. 4. quar. 8^o, pl. diagrs. v. 1, no. 1, Apr. 1933. 20s. post free.
- Giornale di biologia applicata alla industria chimica. R. Scuola superiore di chimica industriale, Bologna. bi-mo. 8^o. il. v. 1, no. 1, Feb. 1931. 100 lire (foreign) a year.

NOTES ON PERIODICALS

(cont'd)

New

Foreign (cont'd)

- La Granja, revista mensual de avicultura, ganaderia y agricultura. Zaragoza, 916 Nte. Monterrey, N. L., Mex. mo. 4^o. ano 1, no. 1, Feb. 1933. 2.00 a year.
- Hong Kong naturalist. Supplement. Hong Kong university, Hong Kong. irreg. 8^o. il. plates. no. 1, Oct. 1932. 2 dollars, Hong Kong currency, 4 shillings or 1 dollar gold.
- Imperial bureau of animal genetics. Animal breeding abstracts. Imperial bureau of animal genetics, King's Buildings, Univ. of Edinburgh, Scotland. 8^o. v. 1, no. 1, Apr. 1933. Fifteen shillings a year.
- Imperial bureau of plant genetics - herbage plants. Herbage reviews. Imperial bureau of plant genetics - herbage plants, Agricultural Buildings, Aberystwyth, Wales, Great Britain. quar. 8^o. v. 1, no. 1, Mar. 1933. 1933 subscription included in that to Herbage abstracts.
- Institut international de statistique. Revue. W. P. Van Stockum & fils, S. A., La Hage. quar. 4^o. année, livr. 1, 1933. Fl. 6 a year.
- Journal du cycle bio-zoologique. no. 1/2. il. 4^o. Kyiv, 1932. Text and added title in Ukrainian; summaries in English or German. At head of title: Academie des sciences d'Ukraine. Classe des sciences naturelles et techniques.
- Der Landwirt; zeitschrift für landwirtschaft und genossenschaftswesen. Landwirtschaftliche zentral-darlehens-kasse, Novisad, Yugoslavia. 4^o. jahrg. 1, nr. 1, Jan. 15, 1933. Din. 60.
- Poultry record. The Poultry record co., 53 Victoria Street, London, S. W. 1. mo. 8^o. v. 1, no. 1, Apr. 1933. Price: threepence.
- Revista agricola del Tolima. Sociedad de agricultores del Tolima. Ibaguë, Tolima, S. A. mo. il. 8^o. v. 1, no. 1, June 1933. Free to members of the society.
- Revista de economia y estadistica. Secretaria de la economia nacional, Departamento de estudios economicos, Av. Republica Argentina No. 12, Mexico. mo. 4^o. v. 1, no. 1, May, 1933. \$2.00 a year.
- La Revue de Madagascar. Tananarive, Madagascar. quar. 4^o. il. no. 1, Jan. 1933. Continues Madagascar. Bulletin economique. Partie; Documentation, etudes.
- La Selectionneur. v. 1, no. 1, 1932. 4^o. Versailles, 1932. Organe de l'Association française des selectionneurs de plantes. v. 1 has title Le Selectionneur français.
- La terre et la vie; revue d'histoire naturelle. Société nationale d'acclimation de France. 198, Boulevard Saint-Germain, Paris (VIIe). mo. 4^o. il. v. 1, no. 1, Feb. 1931. France et colonie, 75 fr.; etranger (countries listed) 90 fr; les autres pays 105 fr.
- Tree lover. 2a Cork Street, Bond Street, London, W. 1. quar. 8^o. il. no. 1, Oct. 1932. 5/- a year.
- Zeitschrift für vitaminforschung, zugleich Zentralblatt für vitaminologie und verwandte ernährungsprobleme. Verlag von Hans Huber, Bern. quar. 8^o. pl. b. 1, Hft. 1, Jan. 1932. Bezugpreis jährlich fr. 15; oder Rm. 12.

NOTES ON PERIODICALS

(cont'd)

Changed

- American sheep breeder, Chicago, Ill. Changed to Sheep breeder with v. 53, no. 1, Jan. 1933.
- Bradstreet's weekly. New York. Ceased with v. 61, no. 2852, Feb. 25, 1933. Absorbed in Dunn & Bradstreet weekly review, beginning with v. 41, no. 2058, Mar. 4, 1933.
- California grower. San Francisco. Changed to California grape grower with v. 5, no. 6, June, 1933.
- Chemische umschau auf dem gebiete der fette, öle, wachse und harze. Stuttgart. Changed to Fettchemische umschau, neue folge der Chemischen umschau auf dem gebiete der fette, öle, wachse und harze, with jahrg. 40, hft. 1, Jan. 1933.
- Deutsche kakteen-gesellschaft. Monatsschrift. Berlin. Changed to Kakteenkunde with jahrg. 1933, heft. 1, Jan. 1933.
- Dixie poultry journal. Nashville, Tenn. Changed to Dixie farm and poultry journal with v. 12, no. 2, Feb. 1933.
- The Fertilizer green book. Chicago. Merged with Commercial fertilizer, Jan. 1933.
- The N. P. B. A. gazette. London. Changed to the Pig Breeders' gazette with no. 21, Nov. 1933.
- Palestine & Near East economic magazine; a fortnightly for trade, industry, and agriculture. Tel-Aviv, Palestine. Changed to Palestine & Middle East economic magazine [monthly] with v. 8, no. 1, Jan. 1933.
- Sociedad nacional de agricultura de Chile. Boletin. Santiago de Chile. Changed to El Campesino with v. 65, no. 4, Apr. 1933.

Ceased

- Cotton and finance. Bombay. Discontinued with v. 8, no. 8, Feb. 1933. Incorporated with The Financial news.
- Farm economy. Wellington, N. Z. Discontinued with no. 110, Jan./Feb. 1932.
- Fins, feathers and fur. St. Paul, Minn. Discontinued with no. 120, Apr. 1933. Continued by Minnesota conservationist.
- Home economics news. Peoria, Ill. Discontinued with v. 3, no. 10, Oct. 1932. Absorbed by Practical home economics.
- Indian tea association, Scientific dept. Quarterly journal. Calcutta. Ceased with 1932, pt. 4.
- Iowa. Weather and crop bureau. Iowa monthly crop report. Des Moines, Ia. Ceased with Dec. 1931.
- Journal of rheology. Easton, Pa. Merged with Physics, Mar. 1933.
- Live stock journal. London. Discontinued with v. 117, no. 3089, June 30, 1933.
- Outdoor America. Chicago. Discontinued with v. 11, no. 4, Apr./May, 1933. Continued by National Waltonian.
- Oxford. University. Agricultural Economics research institute. Occasional notes. Oxford, Eng. Ceased with v. 1, no. 20, Oct. 1932. Succeeded by Farm economist.
- Le petit journal agricole & la France paysanne. Paris. Ceased with année 35, no. 1903, Dec. 25, 1932. Continued as Supplement to L'Illustré, Jan. 1, 1933.
- S.W.A. farmer; zeitschrift für die interessen der farmerschaft Süd West Afrikas. Windhoek. Discontinued with jahrg. 9, no. 3, Mar. 1932.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during July, 1933, exclusive of bibliographies
and current issues of serials.*

Agricultural Adjustment Administration

- Agricultural adjustment administration. The domestic allotment plan. By M. L. Wilson. 5 p.
- Agricultural adjustment administration. World wheat and the American farmer. By John E. Dalton. 4 p.

Bureau of Agricultural Economics

- American cotton-tare practices and problems. A preliminary report. By J. W. Wright and R. J. Cheatham. 73 p. (Issued by Division of cotton marketing)
- Effect of trucking on quality and price of fruits and vegetables. By J. W. Park. 6 p. (Issued by Division of fruits and vegetables)
Address, annual meeting, Atlantic states division of the National association of marketing officials, Washington, April 24, 1933.
- Index numbers of prices paid by farmers for commodities bought, 1910-1932. 25 p. (Issued by Division of statistical and historical research)
- Publications relating to farm population and rural life. 14 p. (Issued by Division of farm population and rural life)
- Special report on revised estimates of United States cotton acreage and yield, 1866-1931. 5 p. (Issued by Crop reporting board)
- Spinning tests of selected bales of Sea island, American-Egyptian, and Egyptian-Sakellaridis cotton. A preliminary report. By M. E. Campbell. 17 p. (Issued by Division of cotton marketing in cooperation with Bureau of plant industry)

Division of Agricultural Engineering

- Power alcohol: a partial list of references. Compiled by Dorothy W. Graf. 29 p. (Issued by Library)

Bureau of Chemistry and Soils

- General information on enzymes. By A. K. Balls. 9 p. (Issued by Food research division)
- Publications of the Insecticide division, Bureau of chemistry and soils, Washington, D. C., for the period May 1, 1932, to April 30, 1933, 4 p. (Issued by Insecticide division)
- Selected references on the toxicity of selenium. Compiled by R. A. Osborn. 11 p. (Issued by Food research division)

* For a list of the principal series issued regularly, see v. 4, no. 1-2, p.347.

SELECTED LIST OF MICROGRAPHED PUBLICATIONS

Bureau of Chemistry and Soils (cont'd)

Solid carbon dioxide - methods, apparatus, uses. Selected list of domestic and foreign patents. Compiled by V. A. Pease. 15 p. (Issued by Food research division)

Bureau of Dairy Industry

The manufacture of low-lactose skim milk for use in ice cream. By B.H. Webb and O. E. Williams, 6 p. (Issued by Division of dairy research laboratories)

Vitamin A and color in hay and milk. By E. B. Meigs, A. M. Hartman, and H. T. Converse. 3 p. (Issued by Division of dairy research laboratories)
Abstract of paper read by A. M. Hartman, March 28, 1933, before the American chemical society.

Bureau of Entomology

The effect of various commercial calcium arsenates on bean foliage. By Neale F. Howard and Fred W. Fletcher. 31 p. (E-304)

Office of Experiment Stations

Agricultural research institutions and library centers in foreign countries (July 1, 1933) 63 p.

Compiled by Howard Lawton Knight under the auspices of a special committee of the Experiment station section of the Association of land-grant colleges and universities.

Extension Service

Statistical results of cooperative extension work, 1932. M. C. Wilson. 28 p. Extension service circular 187. (Issued by Office of cooperative extension work)

Forest Service

General policy for cultural work in connection with the unemployment relief reforestation act. 24 p.

Work of the Forest service. 16 p.

Bureau of Home Economics*

Community canning centers. By Mabel C. Stienbarger and Miriam Birdseye. June 1933. 15 p. (Issued in cooperation with Office of cooperative extension work)

Foods rich in vitamins A, B, C, D, E and G. By Hazel E. Munsell. June 15 1933. 6 p. (Issued by Nutrition studies section)

* Includes some publications issued previous to July 1933.

SELECTED LIST OF MICROGRAPHED PUBLICATIONS

Bureau of Home Economics

(cont'd)

Fruits, jellies, preserves, jams, marmalades, conserves, and butters. By Fanny W. Yeatman and Mabel C. Stienberger. June 1933. 18 p. (Issued by Foods and nutrition division)

Household refrigeration: a partial list of references. Issued July 1928; revised June 1933. 33 p. Home economics bibliography 5.

Textiles and clothing: selected list of references on the physical testing of fabrics. By Margaret B. Hays. Revised April 1933. 26 p. Home economics bibliography 8.

Clothing economics. Feb. 1933. 9 p. Series on clothing and textile economy. (Issued by Clothing and textile division)

Community sewing in relief programs. Apr. 1933. 16 p. Series on clothing and textile economy. (Issued by Clothing and textile division)

Hat economy. May 1933. 8 p. Series on clothing and textile economy. (Issued by Clothing and textile division)

Home dyeing with commercial dyes. July 1933. 6 p. Series on clothing and textile economy. (Issued by Clothing and textile division)

How to prepare raw wool at home for bedding. 2 p. Mar. 1933. Series on clothing and textile economy. (Issued by Clothing and textile division)

Library

Agriculture of the American Indians: a classified list of annotated historical references with an introduction. By Everett E. Edwards. Edition 2, 106 p. Bibliographical contributions, no. 23, Edition 2.

Bureau of Plant Industry

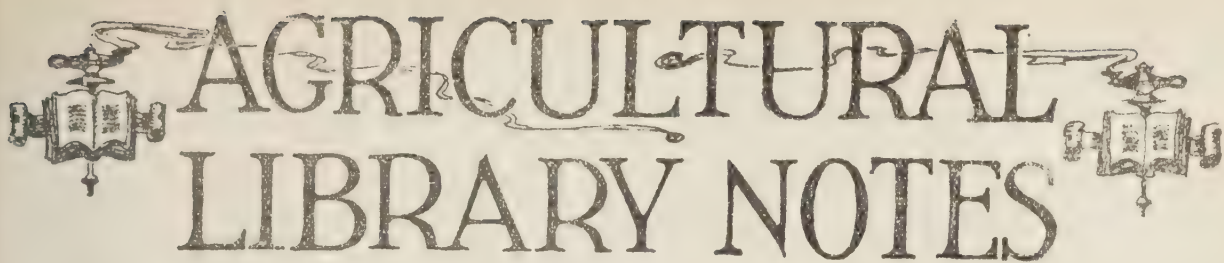
The Golden potato: a new variety. By C. F. Clark, William Stuart, and F. J. Stevenson. 4 p. (Issued by Division of horticultural crops and diseases)

Notes on seed testing. 12 p.

Plant nut trees. By C. A. Reed. 3 p. (Issued by Division of horticultural crops and diseases)

Bureau of Public Roads

Further studies of paving concrete. Investigation of the effect of vibration and delayed finishing on the quality of pavement slabs. Reported by F. H. Jackson and W. F. Kellerman. 53 p.



AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D.C.

PRINCIPAL LIBRARY ACCESSIONS

Agriculture

EGYPT. MINISTRY OF AGRICULTURE. The Egyptian agricultural review; the agricultural and industrial exhibition special number. From February 15, to March 16, 1931. Cairo, 1932.

Field Crops

CHINESE COTTON STATISTICS ASSOCIATION. Cotton production in China, 1932. Shanghai, 1933. Chinese.

ITALY. DIREZIONE GENERALE DELL'AGRICOLTURA. The wheat campaign in Italy. Rev. ed. Rome, 1931.

QUEENSLAND. BUREAU OF SUGAR EXPERIMENT STATIONS. The Queensland sugar industry. Brisbane, 1933.

Domestic Animals, Veterinary Medicine and Parasites

BAUMGART, W. A. F. Über das verhalten der portallymphknoten bei der distomatose des rindes. Leipzig, 1933. Inaug.-diss. Leipzig.

DORIER, A. Recherches biologiques et systématiques sur les gordiacés. Grenoble, Allier, 1930.

FREY, MARTIN. Morphologische und histologische untersuchungen an der schild-drüse verschiedener hunderassen, Köln-Walk, 1933. Diss. Bonn-Poppelsdorf.

FROISSANT, ALBERT. Contribution à l'étude de quelques trematodes ecto-parasites. Paris, Cour d'appel, 1930.

HOARE, E. W. Veterinary materia medica & therapeutics. Ed. 5. London, Baillière, Tindall and Cox, 1933.

HOLZHAUER, A. H. Fütterungsversuche mit trichinellen beim munde. Leipzig, 1933. Inaug.-diss. Leipzig.

LELLOUCH, Léon. De la frequence du taenia en Algerie. Alger, 1930. Thèse. Faculté de medecine et de pharmacie, Alger.

LOHSE, ERNST. Histologische untersuchungen über die streptokokkenmastitis des rindes. Leipzig, 1933. Inaug.-diss. Leipzig.

WASHBURN, F. L. The rabbit book. Ed. 2. Philadelphia, Lippincott, 1933.

Feeding Stuffs

REHBOCK, H. J. Vergleichende untersuchungen über die konservierungsverluste und den futterwert von wiesengras 1. und 2. schnitt bei feimengrasherstellung, silofutterbereitung und heuwerbung. Königsberg i. Pr., 1932. Inaug.-diss. Königsberg.

SACHSSE, MANFRED. Untersuchungen über den wert tierischer abfallstoffe als futtermittel. Leipzig, 1932. Inaug.-diss. Rostock.

*In the July, 1933 issue it was stated that each issue would be limited to 25 pages but it is now possible to increase the number of pages. The inclusion of the list of articles by State agricultural experiment station workers appearing in "outside" publications makes this increase necessary.

PRINCIPAL LIBRARY ACCESSIONS
(cont'd)

Soils

- BEUTELSPACHER, HANS. Methode zur bestimmung geringer kaliummengen in bodenlösungen. Plieningen-Stuttgart, 1933. Inaug.-diss. Hohenheim.
- RUND, OSKAR. Die gewinnung von bodenlösung durch wasserverdrängung im vergleich zum natürlichen pressaft nach v. Wrangell. Tübingen, Göbel, 1933. Inaug.-diss. Hohenheim.;

Horticulture

- CHAMINADE, ROGER. La production et le commerce des raisins de table. Paris, Baillière, 1933.
- EVELYN, JOHN. Directions for the gardiner at Says-court. London, Nonesuch press, 1932.
- FAES, HENRI. Notre vignoble. Lausanne, Genève, Payot, 1932.
- FLETCHER, S. W. A history of fruit growing in Pennsylvania. [Harrisburg, 1931-33] (Reprinted from the Proceedings of the 72d-74th annual meeting of the State horticultural association of Pennsylvania, 1931-1933)
- GUILLAUMIN, ANDRÉ. Arbres et arbrisseaux, utiles ou ornementaux. Paris, 1927. (Guides aux collections de plantes vivantes du Muséum national d'histoire naturelle, III)
- HIGGINS, Mrs. Vera. The study of cacti. London, Blandford, 1933.
- MEYER, J. E. The herbalist and herb doctor. Hammond, Ind., Indiana botanic gardens, 1932.
- PERRY, ERNESTINE. Working together for highway and community beautification. Springfield, Mass., National highway beautification council, 1932.
- PUTZ, ALFRED. The garden notebook. Garden City, N. Y., Doubleday, Doran, 1933.
- SELLE, R. A. Texas grapefruit. Houston, Texas, Carroll, 1933.
- SHEWELL-COOPER, W. E. The garden, based on broadcast talks given on "The northern garden." London, Benn, 1933.
- SIEMS, H. B. For better lawns and gardens. Chicago, Swift, 1931.
- SPAFFORD, W. J. Pea-growing in South Australia. Adelaide, Weir [n. d.]
- TIPPING, H. A. The garden of to-day. London, Hopkinson, 1933.

Apiculture

- ALPHANDÉRY, EDMOND. J'apprends l'apiculture. Paris, Gauthier-Villars, 1933.
- DIGGES, J. R. G. The practical bee guide. Ed. 7. London, Simpkin, Marshall, 1932
- FESTSCHRIFT ZUM 60. GEBURTSTAG VON ENOCH ZANDER; forschungsergebnisse aus dem gebiete der bienenkunde hrsg. von A. Himmer und E. Wohlgemuth. Leipzig, Leipziger bienenzeitung, 1933.

Forest Fires

- INTERNATIONAL INSTITUTE OF AGRICULTURE. Enquête internationale sur les incendies de forêts. Romo, 1933.

PRINCIPAL LIBRARY ACCESSIONS
(cont'd)

Hail

ROHRBECK, WALTHER, and SCHLUMBERGER, OTTO. Die schätzungsgrundlagen bei hagelschäden. Berlin, Parey, 1933.

Game

ONTARIO. DEPT. OF GAME AND FISHERIES. SPECIAL COMMITTEE ON THE GAME SITUATION. Report. Toronto, 1933.

Engineering and Electricity

BRITISH OXYGEN COMPANY LIMITED. The B. O. C. handbook for oxy-acetylene welders. London, 1932.

REYNOLDS, C. E. Reinforced concrete designers' handbook. London, Concrete publications, 1932.

SMYTHE, W. R., and MICHELLS, W. C. Advanced electrical measurements. New York, Van Nostrand, 1932.

U. S. MISSISSIPPI RIVER COMMISSION. The improvement of the lower Mississippi river for flood control and nativation. St. Louis, 1932.

Transportation

ANDERSON, R. M. C. The roads of England. London, Benn, 1932.

EDWARDS, F. K. Principles of motor transportation. New York, McGraw-Hill, 1933.

MILLER, S. L. Inland transportation. New York, McGraw-Hill, 1933.

WATSON, HENRY. Street traffic flow. London, Chapman and Hall, 1933.

Food and Cookery

BALYEAT, R. M. Wheat, egg or milk free diets. Philadelphia, Lippincott, 1933.

CALIFORNIA. UNIVERSITY. HEILER COMMITTEE FOR RESEARCH IN SOCIAL ECONOMICS.

The foods chosen by dependent families. Berkeley, 1933. Mimeographed.

HARDY, GEORGES. L'alimentation indigène dans les colonies françaises, protectorats et territoires sous mandat. Paris, Vigot, 1933.

MARTIN, C. R. A. Practical food inspection. v. 2. Fish, poultry and other foods. London, Lewis, 1933.

MORRIS, T. N. Principles of fruit preservation: jam making, canning and drying. London, Chapman & Hall, 1933.

SEARLE, TOWNLEY. Strange news from China: a first Chinese cookery book. London, Cuseley, 1932.

Home Economics

DORN, H. H. D. Zur stütze der hausfrau. Ed. 2. Berlin, Parey, 1891.

PRINCIPAL LIBRARY ACCESSIONS

(Cont'd)

Furniture

WRIGHT, F. E. Old furniture restored. St. Paul, Minn., Farmer's wife, 1933.

Chemistry and Chemical Technology

ASSOCIATION DES CHIMISTES DE SUCRERIE, DE DISTILLERIE ET INDUSTRIES AGRICOLES DE FRANCE ET DES COLONIES. Cinquantenaire, 1882-1932. Nancy, Berger-Levrault, 1932.

COLE, S. W. Practical physiological chemistry. Ed. 9. Cambridge, Eng., Heffer, 1933.

COMANT, J. B. The chemistry of organic compounds. New York, Macmillan, 1933.

HAUSBRAND, EUGEN. Evaporating, condensing and cooling apparatus. London, Benn, 1933.

MAXTED, E. D. Catalysis and its industrial applications. London, Churchill, 1933.

MEYER, H. J. L. Nachweis und bestimmung organischer verbindungen. Berlin, Springer, 1933. (Lehrbuch der organisch-chemischen methodik, v. 2.)

MUZZINGER, HANS. Weltwirtschaftliche zusammenhänge und gestaltung der deutschen speisefettversorgung. Plieningen-Stuttgart, 1931. Inaug.-diss. Hohenheim.

NAYLOR, W. M., and Le Vesconte, Amy, Introductory chemistry with household applications. New York, Century, 1933.

SCHMIDT, ERNST. Lehrbuch der pharmazeutischen chemie. Ed. 7. v. 1. Braunschweig Vieweg, 1933.

WELLCOME RESEARCH INSTITUTION, LONDON. The Wellcome research institution and the affiliated research laboratories. London, 1933.

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- GRIFFITHS, D. Promising leads in lily breeding. Amer. Soc. Hort. Sci. Proc. (1932) 29: 517-518. 1933.
- HALLER, M. H., HARDING, P. L., and ROSE, D. E. The interrelation of firmness, dry weight, and respiration in strawberries. Amer. Soc. Hort. Sci. Proc. (1932) 29: 330-334. 1933.
- HARDING, P. L., and HALLER, M. H. The influence of storage temperatures on the dessert and keeping quality of peaches. Amer. Soc. Hort. Sci. Proc. (1932) 29: 277-281. 1933.
- HARLEY, C. P., MASSEE, M. P., and MAGNESS, J. R. Effects of leaf area, nitrate of soda, and soil moisture on fruit bud formation in the Delicious apple. Amer. Soc. Hort. Sci. Proc. (1932) 29: 193-198. 1933.

PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS

RELATING SPECIALLY TO THE DEPARTMENT

Bureau of Plant Industry
(cont'd)

- JEMAINS, A. E. Further studies of lima-bean scab. *Phytopathology* 23: 662-666. Aug. 1933.
- JONES, J. W. Effect of fertilizers on the yield of rice grown in pots. *Jour. Amer. Soc. Agron.* 25: 548-554. Aug. 1933. (With Calif. Agr. Expt. Sta.)
- KIMMAN, C. F. A preliminary report on root growth studies with some orchard trees. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 220-224. 1933.
- LONG, J. C. The influence of rooting media on the character of roots produced by cuttings. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 352-355. 1933.
- LUMSDEN, D. V. Flower development in narcissus during summer storage. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 522-525. 1933.
- LUTE, J. M. (With G. A. RUNNER, Bur. Ent.) Studies on the removal of arsenical spray residue from grapes. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 345-349. 1933.
- MCNEE, R., and SCHOTH, H. A. (With P. TABOR, Ga. State Col. Agr.) Tests with imported seeds of *Vicia villosa*. *Jour. Amer. Soc. Agron.* 25: 555-556. Aug. 1933. (In cooperation with Oreg. Agr. Expt. Sta. and Ga. State Col. Agr.)
- MAGNESS, J. R., Reigeimbal, L. O., and Degman, E. S. Accumulation of carbonhydrates in apple foliage, bark, and wood as influenced by moisture supply. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 246-252. 1933.
- MAGRUDER, R. The effect of kind of paper bags on the production of selfed table beet seed under bags. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 442-444. 1933.
- MEIER, F. C. Billion dollar berries. *Jour. N. Y. Bot. Gard.* 34: 172-177. Aug. 1933. Abstract of illustrated lecture.
- NEAL, D. C., WESTER, R. E., and GUNN, K. C. Fusion of large-cell hyphae of the cotton-root-rot fungus. (Note) *Phytopathology* 23: 676-677. Aug. 1933.
- NELSON, A. L. Grasses, alfalfa, and sweet clover at the Archer field station. *Wyoming Agr. Expt. Sta. Bul.* 195. 46 p. March 1933. (In cooperation)
- PEACOCK, W. M., WRIGHT, R. C., and WHITEMAN, T. M. Controlling the shrinkage of skinned potatoes in storage. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 415-419. 1933.
- PEITZER, W. T., Asbury, C. E., and HAMNER, K. C. Effects of fumigation of different varieties of *Vinifera* grapes with sulphur dioxide gas. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 339-344. 1933.
- ROOF, G. A. Blister rust activities in California in 1932. *Calif. Dept. Agr. Mo. Bul.* 21: 571. Dec. 1932 (Recd Aug. 1933).
- SEAMEL, A. D., POMEROY, C. S., and CARYL, R. E. Relation of foliage to fruit size in Washington Navel oranges. *Calif. Citrogr.* 18: 296. Sept. 1933.
- SHEAR, C. L. Life histories of *Trybliidiella* species. *Mycologia* 25: 274-285. July/Aug. 1933.
- SMITH, J. M. Hand-pollenizing or crossing of garden flowers. *Flower Grower* 20: 341. Aug. 1933.
- SITTON, B. G. Some observations on stomatal movements in *Hicoria pecan*. *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 80-82. 1933.
- SMITH, C. L. U. S. Department of Agriculture pecan research in Texas. *Pecan Grower* 1(4/5): 1, 3. March/April 1933.
- SPRINGAUER, C. E. Effects of temperature and humidity upon length of rest period of tubers of Jerusalem artichoke (*Helianthus tuberosus*). *Amer. Soc. Hort. Sci. Proc.* (1932) 29: 403-408. 1933.

PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS
APPEARING OUTSIDE THE DEPARTMENT

Bureau of Plant Industry
(cont'd)

- STOKES, I. E. When shall we turn under soybeans? Sugar Bul. 11(22): 3. Aug. 15, 1933.
- SWINGLE, C. F. The exosmosis method of determining injury, as applied to apple rootstock hardiness studies. Amer. Soc. Hort. Sci. Proc. (1932) 29: 380-383. 1933.
- TAYLOR, W. A. Research in the Bureau of Plant Industry. Sci. Mo. 37: 5-19. July 1933.
- WEINBERGER, J. H., and CULLINAN, J. P. Further studies on the relation between leaf area and size of fruit, chemical composition, and fruit bud formation in Elberta peaches. Amer. Soc. Hort. Sci. Proc. (1932) 29: 23-27. 1933.
- WOOD, M. N. Artificial pollination as a means of increasing production in commercial Persian walnut orchards. Amer. Soc. Hort. Sci. Proc. (1932) 29: 164-168. 1933.
- Dichogamy----- an important factor affecting production in the Persian walnut. Amer. Soc. Hort. Sci. Proc. (1932) 29: 160-163. 1933.
- WRIGHT, R. C., LAURITZEN, J. I., and WHITEMAN, T. M. The effect of storage temperature and humidity on the keeping quality of onions. Amer. Soc. Hort. Sci. Proc. (1932) 29: 463-465. 1933.

Bureau of Public Roads

- HARRISON, J. L. Learning the philosophy of profit. Pt. 1. Business problems of contracting. Engin. News-Rec. 111(3): 73-75. July 20, 1933.
- HARRISON, J. L. Protecting profit in bad weather. Pt. 2. Contract. and Engin. Mo. 27(1): 23-24, 32. July 1933.
- JACKSON, F. H. and KELLERMANN, W. J. Vibration and delayed finishing improve concrete. Concrete Mo. 41(8): 8-9. Aug. 1933.
- JAMES, E. W. Determination of losses in travel time. Civil Engin. Mo. 3: 463-465. August 1933.
- MOORE, C. S. Driving a 4,230-ft. tunnel in Yosemite national park. Engin. News-Rec. 111(3): 76-78. July 20, 1933.

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ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS

(exclusive of State station and U. S. Department of Agriculture publications)

A list of the periodical articles written by State agricultural experiment station workers (exclusive of publications issued by the State stations and the U. S. Department of Agriculture) is compiled regularly by the Office of Experiment Stations library. Miss C. L. Feldkamp, librarian of the Office, reports that in the past fiscal year there appeared 1276 such articles in approximately fifty scientific journals and proceedings of scientific societies. A list of the periodical and society publications in which they appeared, arranged according to the number of station articles contained in them, is given below. Those which contained the greater number of articles are placed first in the list. Popular articles in farm papers are not included

Periodicals

Phytopathology	American naturalist
Journal of American society of agronomy	Botanical gazette
Soil science	Industrial and engineering chemistry
Journal of dairy science	Journal of biological chemistry
Plant physiology	Journal of infectious diseases
Journal of economic entomology	Journal of home economics
Poultry science	Ecology
Journal of the Association of official agricultural chemists	North American veterinarian
Journal of farm economics	Veterinary medicine
Journal of heredity	Genetics
Journal of the American veterinary medical association	Fruit Products journal and American vinegar industry
Agricultural engineering	Stain technology
Cereal chemistry	Journal of physical chemistry
Journal of bacteriology	Florida entomologist
Cornell veterinarian	Science
Journal of nutrition	Journal of forestry
American journal of botany	Journal of general physiology

Proceedings of Scientific Societies

American society for horticultural science	Ohio vegetable growers association
American society of animal production	Ohio state horticultural society
Association of southern agricultural workers	New Jersey mosquito extermination society
New York state horticultural society	Iowa state horticultural society
New Jersey state horticultural society	International association of milk dealers
Washington state horticultural association	International association of ice cream manufacturers
Illinois state horticultural society	Michigan state horticultural society
Virginia state horticultural society	Pennsylvania state horticultural association.

As it has been suggested that it would be of interest to have a list of the articles by station workers included in Agricultural Library Notes, arrangements have been made by the Office of Experiment Stations library to furnish this list regularly, beginning with the present issue. A list of the recent articles follows.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS
(exclusive of State station and U. S. Department of Agriculture publications)

(cont'd)

List of Recent Articles

California

- ALLEN, R. F. A cytological study of the teliospores, promycelia, and sporidia in *Puccinia malvacearum*. *Phytopathology* 23(7): 572-586. July 1933.
- ALLEN, R. F. The spermatia of flax rust, *Melampsora lini*. *Phytopathology* 23(5): 487. May 1933. (Phytopathological notes)
- CRUESS, W. V. (With SAMISCH, R., and PANCOAST, H. M.) Fruit enzyme investigations. *Fruit Prod. Jour. and Amer. Vinegar Indus.* 12(11): 323-324, 344. July 1933.
- JENKINS, A. E., and FAWCETT, H. S. Records of citrus scab mainly from herbarium specimens of the genus *Citrus* in England and the United States. *Phytopathology* 23(5): 475-482. May 1933. (In cooperation with U. S. Dept. Agric.)
- JOSYLN, M. A. (With MARSH, G. L.) Observations on certain changes occurring during freezing and subsequent thawing of fruits and vegetables. *Fruit Prod. Jour. and Amer. Vinegar Indus.* 12(11): 330-332. July 1933.
- PETERSON, G. M. Wealth, income and living. *Jour. Farm Econ.* 15(3): 421-448. July 1933.

Delaware

- DAUGHERTY, M. M. Review of current farm taxation research. *Jour. Farm. Econ.* 15(3): 531-540. July 1933.

Florida

- CAMP, A. F., MOWRY, H., and LOUCKE, K. W. The effect of soil temperature on the germination of citrus seeds. *Amer. Jour. Bot.* 20(5): 348-357. May 1933
- WEBER, G. F. Stem canker of *Crotalaria spectabilis* caused by *Diaporthe crotalariae*, n. sp. *Phytopathology* 23(7): 596-604. July 1933.

Hawaii

- HAGAN, H. R. Hawaiian pineapple field soil temperature in relation to the nematode *Heterodera radicicola* (Greef) Müller. *Soil Sci.* 36(2): 83-95. Aug. 1933

Indiana

- DOYLE, L. P. Neuritis in swine associated with atypical posterior paralysis. *Jour. Amer. Vet. Med. Assoc.* 83(2): 261-263. Aug. 1933.
- THORNTON, S. F. A simple and rapid chemical test on plant material as an aid in determining potassium needs. *Jour. Amer. Soc. Agron.* 25(7): 473-481. July 1933.

Iowa

- SCHULTZ, T. W. Testing the significance of mean values drawn from stratified samples. *Jour. Farm Econ.* 15(3): 452-475. July 1933.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS
(exclusive of State station and U. S. Department of Agriculture publications)
(cont'd)

Kentucky

- EDDY, C. O. Trend of fruit pests and their control. Ky. State Hort. Soc. Trans. 77: 79-87. [1933]
OLNEY, A. J., and WALTMAN C. S. Orchard fertilizer problems. Ky. State Hort. Soc. Trans. 77: 61-68. [1933]
PRICE, W. A., and EDDY, C. O. Strawberry insects of 1932. Ky. State Hort. Soc. Trans. 77: 116-121. [1933]
VALLEAU, W. D. Apple-scab spore development and sprays. Ky. State Hort. Soc. Trans. 77: 73-78. [1933]

Massachusetts

- GIBBS, C. S. The Massachusetts plan for the eradication and control of infectious laryngotracheitis. Jour. Amer. Vet. Med. Assoc. 83(2): 214-217. Aug. 1933.

Michigan

- FABIAN, F. W. Thermal death points of molds and yeasts found in a grape juice plant. Fruit Prod. Jour. and Amer. Vinegar Indus. 12(11): 327-329, 347. July 1933.
HALLMAN, E. T., and WITTER, J. F. Some observations on the pathology of Johne's disease. Jour. Amer. Vet. Med. Assoc. 83(2): 159-187. Aug. 1933.
MALIMANN, W. L., and CHANDLER, W. L. On the disinfection of avian fecal material. Jour. Amer. Vet. Med. Assoc. 83(2): 190-196. Aug. 1933.

New Hampshire

- MARTIN, C. L. Experiments on fowl-pox. Jour. Amer. Vet. Med. Assoc. 83(2): 188-189. Aug. 1933.

New Jersey

- LIPMAN, J. G. Nitrogen and fertilizers. Amer. Fert. 79(3): 5-6, 24-27. July 1933.

New York

- REDDICK, D., and CROSIER, W. Biological specialization in Phytophthora infestans. Amer. Potato Jour. 10(7): 129-134. July 1933.

North Dakota

- BRENTZEL, W. E. Physiologic specialization of Tilletia tritici on emmer. Phytopathology 23(5): 483-485. May 1933. (Phytopathological notes)

Ohio

- SHOEMAKER, J. S. Experimental work with small fruits in Ohio. Ky. State Hort. Soc. Trans. 77: 97-105. [1933]
SHOEMAKER, J. S. Newer varieties of small fruits Ky. State Hort. Soc. Trans. 77: 131-134. [1933]
TILFORD, F. E. Potato spraying in Ohio. Amer. Potato Jour. 10(7): 140-141. July 1933.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS
(exclusive of State station and U. S. Department of Agriculture publications)
(cont'd)

Oregon

BRESSMAN, E. N., and NICHOLS, R. A. Germination of the Oospores of *Pseudopezizomyces humuli*. *Phytopathology* 23 (5): 485-486. May 1933. (Phytopathological notes). (In cooperation with U. S. Dept. Agric.)

Rhode Island

DELAFLANE, J. P., and STUART, H. O. Cecal ablation of turkeys by the use of clamps in preventing enterohepatitis (blackhead) infection. *Jour. Amer. Vet. Med. Assoc.* 83(2): 238-246. Aug. 1933.

South Dakota

KLAGES, K. H. W. The reliability of nursery tests as shown by correlated yields from nursery rows and field plats. *Jour. Amer. Soc. Agron.* 25(7): 464-472. July 1933.

KLAGES, K. H. W. The value and application of growth curves to field plat experiments. *Jour. Amer. Soc. Agron.* 25(7): 453-464. July 1933.

Texas

MATHEWS, F. P. The toxicity of *Drymaria pachyphylla* for cattle, sheep, and goats. *Jour. Amer. Vet. Med. Assoc.* 83(2): 255-260. Aug. 1933.

QUIMBY, J. R., and STEPHENS, J. C. A rapid method of planting small field plats of row crops. *Jour. Amer. Soc. Agron.* 25(7): 493-494. July 1933.
(Note)

Wisconsin

COOPER, D. C. Nuclear divisions in the tapetal cells of certain angiosperms. *Amer. Jour. Bot.* 20(5): 358-364. May 1933.

FINK, D. S., MORTIMER, G. B., and TRUOG, E. Three years results with an intensively managed pasture. *Jour. Amer. Soc. Agron.* 25(7): 441-453. July 1933.

A separate mimeographed monthly list of the publications issued by the State agricultural experiment stations is prepared and distributed by the Office of Experiment Stations. For this reason the list is not included in Agricultural Library Notes.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST, 1933*

Arizona

Eighteenth annual report for the fiscal year ended June 30, 1932, including a report on project work to November 30, 1932. P. H. Ross. (Ariz. Agr. Col. Ext. Project Circ. 13) Tucson, 1933.

Colorado

- Judging livestock. B. W. Fairbanks, and others. (Colo. Agr. Col. Ext. Bul. 265-A) Fort Collins, 1933.
- Care and feeding of baby chicks. O. C. Ufford. (Colo. Agr. Col. Ext. Bul. 272-A) Fort Collins, 1933.
- What is 4-H club work? C. W. Ferguson. (Colo. Agr. Col. Ext. Bul. 299-A) Fort Collins, 1933.
- Silage and trench silos in Colorado. H. B. Osland and C. A. Smith. (Colo. Agr. Col. Ext. Bul. 305-A) Fort Collins, 1933.
- Diseases of poultry. I. E. Newsom. (Colo. Agr. Col. Ext. Bul. 310-A, rev.) Fort Collins, 1933.
- Home canning in Colorado. M. J. Williams. (Colo. Agr. Col. Ext. Bul. 322-A) Fort Collins, 1933.
- Home drying of fruits and vegetables. M. J. Williams. (Colo. Agr. Col. Ext. Bul. 323-A) Fort Collins, 1933.
- Milk and its uses. M. J. Williams. (Colo. Agr. Col. Ext. Bul. 331-A) Fort Collins, 1933.
- Orchard management. E. P. Sandsten and W. M. Case. (Colo. Agr. Col. Ext. Bul. 332-A) Fort Collins, 1933.
- Feeding poultry of all ages. O. C. Ufford. (Colo. Agr. Col. Ext. Bul. 333-A) Fort Collins, 1933.
- Abortion disease of cattle. G. H. Glover. (Colo. Agr. Col. Ext. Bul. 334-A) Fort Collins, 1933.
- Sugar-beet by-products for fattening livestock. H. B. Osland. (Colo. Agr. Col. Ext. Bul. 335-A) Fort Collins, 1933.
- The iceless refrigerator. M. E. Sutherland. (Colo. Agr. Col. Ext. Circ. 61-A [rev.]) Fort Collins, 1933.
- Good posture, health and good looks. M. J. Williams. (Colo. Agr. Col. Ext. Circ. 72-A, rev.) Fort Collins, 1933.
- Foods judging; How does your jar place? M. J. Williams. (Colo. Agr. Col. Ext. Circ. 1228-A) Fort Collins, 1933.
- 4-H pig-club members' manual: The gilt. G. R. Henderson. (Colo. Agr. Col. Ext. Circ. 1240-A) Fort Collins, 1933.
- Clothing judging in Colorado 4-H clubs. N. M. Hott. (Colo. Agr. Col. Ext. Circ. 1258-A) Fort Collins, 1933.
- 4-H pig-club members' manual: The sow and litter. G. R. Henderson. (Colo. Agr. Col. Ext. Circ. 1259-A) Fort Collins, 1933.
- Brunker oats; a Colorado standard variety for drylands. T. G. Stewart. (Colo. Agr. Col. Ext.) Fort Collins, 1933.
- Colorado 13 corn; a Colorado standard variety for medium altitudes. T. G. Stewart. (Colo. Agr. Col. Ext.) Fort Collins, 1933.
- Subsistence gardens. W. M. Case. (Colo. Agr. Col. Ext.) Fort Collins [1933?]
- Trebi barley; a Colorado standard variety for irrigated lands. T. G. Stewart (Colo. Agr. Col. Ext.) Fort Collins [1933?]

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST, 1933
(cont'd)

Florida

Herbaceous perennials. J. V. Watkins. (Fla. State Col. for Women, Ext. Bul. 76) Tallahassee, 1933.

1932 report cooperative extension work in agriculture and home economics, Agricultural Extension Service, University of Florida, Florida State College for Women ... Report of general activities for 1932 with financial statement for the fiscal year ending June 30, 1932. W. Newell. (Fla. Univ. Agr. Ext.) Gainesville, 1933.

Illinois

Corn as a silage crop. Varieties: When to harvest; methods of preserving in silo. W. B. Nevins. (Ill. Agr. Expt. Sta. Circ. 409) Urbana, 1933.

Indiana

More and better potatoes. W. B. Ward, and others. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 89, 4th rev. ed) Lafayette, 1933.

Insects affecting farm animals. J. J. Davis. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 105, rev.) Lafayette, 1933.

The San Jose scale. J. J. Davis. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 114, rev.) Lafayette, 1933.

Practical sanitation to control poultry diseases. L. Todd, and L. P. Doyle. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 173, rev.) Lafayette, 1933.

School grounds; their planning and planting. R. B. Hull. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 189) Lafayette, 1933.

Feeding dairy cows for economical production. J. H. Hilton. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 192) Lafayette, 1933.

Testing and preparing seed corn. M. O. Pence and C. T. Gregory. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 193) Lafayette, 1933.

Peach pruning suggestions. M. McCown. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 194) Lafayette, 1933.

Herd records increase the dairy income. G. A. Williams. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 195) Lafayette, 1933.

Indiana big team hitches. P. T. Brown. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 196) Lafayette, 1933.

Developing club colts in Indiana. P. T. Brown. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 197) Lafayette, 1933.

Legumes in the dairy ration. E. A. Gannon. (Purdue Univ. Dept. Agr. Ext., Leaflet 171) Lafayette, 1933.

Eradicating weeds with chlorates. O. C. Lee. (Purdue Univ. Dept. Agr. Ext., Leaflet 172) Lafayette, 1933.

Dressing and curing meat on the farm. J. T. Frost. (Purdue Univ. Dept. Agr. Ext., Leaflet 173) Lafayette, 1933.

Common cabbage diseases in Indiana and their control. C. T. Gregory. (Purdue Univ. Dept. Agr. Ext., Leaflet 174) Lafayette, 1933.

Korean and other lespedezas. K. E. Beeson. (Purdue Univ. Dept. Agr. Ext., Leaflet 175) Lafayette, 1933.

Asparagus. Prepared by the Division of Horticulture. (Purdue Univ. Dept. Agr. Ext., Leaflet 176) Lafayette, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST, 1933
(cont'd)

Indiana (cont'd)

The home small fruit garden. M. McCown. (Purdue Univ. Dept. Agr. Ext., Leaflet 177) Lafayette, 1933.

Celery growing. W. B. Ward. (Purdue Univ. Dept. Agr. Ext., Leaflet 178) Lafayette, 1933.

Treatment of muck and dark sandy soils. S. D. Conner. (Purdue Univ. Dept. Agr. Ext., Leaflet 179) Lafayette, 1933.

Control of cucumber and melon diseases in Indiana. C. T. Gregory. (Purdue Univ. Dept. Agr. Ext., Leaflet 180) Lafayette, 1933.

Profits in tomato picking. Prepared by the Division of Horticulture. (Purdue Univ. Dept. Agr. Ext., Leaflet 181) Lafayette, 1933.

Growing tomatoes for the early market. W. B. Ward. (Purdue Univ. Dept. Agr. Ext., Leaflet 182) Lafayette, 1933.

Snap beans for the canner. Prepared by the Division of Horticulture. (Purdue Univ. Dept. Agr. Ext., Leaflet 183) Lafayette, 1933.

Ice cream making in the home. B. E. Horrall. (Purdue Univ. Dept. Agr. Ext. Leaflet 184) Lafayette, 1933.

Soil management and fertilizers for Indiana fruit crops. M. McCown. (Purdue Univ. Dept. Agr. Ext., Leaflet 185) Lafayette, 1933.

How to produce clean milk. B. E. Horrall. (Purdue Univ. Dept. Agr. Ext., Leaflet 186) Lafayette, 1933.

Care and operation of electric household equipment. G. M. Redfield. (Purdue Univ. Dept. Agr. Ext., Leaflet 187) Lafayette, 1933.

Iowa

Community meetings: A discussion of programs for group thinking and group play. W. H. Stacy. (Iowa State Col. Ext. Bul. 190) Ames, 1933.

Kansas

Canning foods suitable for breakfast, dinner and supper. G. H. Smurthwaite. (Kans. State Col. Agr. Ext. Bul. 72) Manhattan, 1933.

Minnesota

Adjusting farm rentals to fluctuating values. W. L. Cavert. (Minn. Univ. Agr. Ext. Circ. 42) University Farm, St. Paul, 1933.

Home vegetable storage. A. E. Hutchins. (Minn. Univ. Agr. Ext. Circ. 45) University Farm, St. Paul, 1933.

Homemade Bordeaux mixtures; instant Bordeaux easy to make. R. C. Rose. (Minn. Univ. Agr. Ext. Folder 45) University Farm, St. Paul, 1933.

Missouri

Drying fruits and vegetables. F. L. Carl. (Mo. Agr. Col. Ext. Circ. 307) Columbia, 1933.

Montana

The Montana agricultural outlook: Meats and wages. R. Carpenter. (Mont. Agr. Col. Ext. Circ. 59) Bozeman, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST, 1933
(cont'd)

Nebraska

- Permanent and temporary pastures for Nebraska. P. H. Stewart and D. L. Gross. (Nebr. Agr. Col. Ext. Circ. 102, rev.) Lincoln, 1933.
Corn in Nebraska. P. H. Stewart, and others. (Nebr. Agr. Col. Ext. Circ. 136) Lincoln, 1933.
The trench silo in Nebraska. I. D. Wood and E. B. Lewis. (Nebr. Agr. Col. Ext. Circ. 713, rev.) Lincoln, 1933.
Honey thruout the year. M/ Peters and F. J. Atwood. (Nebr. Agr. Col. Ext. Circ. 911 [rev]) Lincoln, 1933.
The home orchard and fruit garden. E. H. Hoppert. (Nebr. Agr. Col. Ext. Circ. 1231 [rev.]) Lincoln, 1933.

New Jersey

- The possibilities of part-time farming. H. R. Cox. (N. J. Agr. Col. Ext. Bul. 107) New Brunswick, 1933.
Minor enterprises for part-time farmers. H. R. Cox. (N. J. Agr. Col. Ext. Bul. 108) New Brunswick, 1933.

New York

- Food budget for homemade living. M. E. Wells. (N. Y. Agr. Col. (Cornell) Ext. Bul. 258) Ithaca, 1933.
Home canning. M. C. Pfund. (N. Y. Agr. Col. (Cornell) Ext. Bul 261) Ithaca, 1933.

Ohio

- Facts about the wheat situation. (Ohio Agr. Col. Ext. Facts Series 17) Columbus, 1933.

Oregon

- Vegetable-garden insect-pest control. D. C. Mote and B. G. Thompson. (Oreg. Agr. Col. Ext. Bul. 463) Corvallis, 1933.

Texas

- Second growth timber on East Texas farms. C. W. Simmons. (Tex. Agr. Col. Ext. Circ. 4) College Station, 1933.

Utah

- Safe home practices for food preservation. E. Miller. (Utah Agr. Col. n.s. Ext. Circ. 63) Logan, 1933.

West Virginia

- Mexican bean beetle control recommended for subsistence gardens. (W. Va. Agr. Col. Ext.) Morgantown, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST, 1933
(Cont'd)

Wisconsin

Foundations for farm recovery. A well informed people. Annual report of the Extension Service, College of Agriculture, University of Wisconsin, 1932. (Wis. Agr. Col. Ext. Circ. 255) Madison, 1933.

Disinfectants and disinfection. F. B. Hadley and E. C. McCulloch. (Wis. Agr. Col. Ext. Circ. 256) Madison, 1933.

Care of milking machines. E. G. Hastings and G. Werner. (Wis. Agr. Col. Ext. Circ. 259) Madison, 1933.

Home canning and jelly making; vegetables and fruits. Department of Home Economics. (Wis. Agr. Col. Ext. Circ. 261) Madison, 1933.

Wyoming

Alfalfa in Wyoming. D. R. Sabin. (Wyo. Agr. Col. Ext. Circ. 49) Laramie, 1933.

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NOTES ON PERIODICALS

American

Appalachian farmer. Appalachian farmer pub. co., Burton St., Asheville, N. C. P.O.Box 1085. mo. fo. v. 1, no. 1, Aug. 1933. 25¢ a year.

Management methods. New York. Changed to System and management methods with v. 62, no. 7, July 1933.

Mid west dahlia news. quar. v. 1, no. 3. Apr. 1933. Madison, Wis.

Foreign

L'Agricoltura razionale; rivista dell' ente nazionale italiano per l'organizzazione scientifica del lavoro. Piazza Venezia n. 11, Roma. mo. anno 5, no. 1, Jan. 1933. il. 40. Milan, 1933. L. 25 a year.

Imperial bureau of soil science. London. Recent developments in soil analysis. quar. no. 1, June, 1933. Harpenden, Eng.

Standeszeitung deutscher apotheker. semi-weekly. July 5, 1933. fo. Berlin, 1933.

Consists of two periodicals: Apotheker-zeitung and Die Deutsche apotheke.

Apotheker-zeitung. semi-weekly. jahrg. 48, no. 53, July 5, 1933.

Sweden - Statens växtskyddsanstalt. Flygblad, no. 1. il. 80. Stockholm, 1933.

With Meddelande, continues Sweden - Centralanstalten för försöksväsen på jordbruksområdet. Meddelanden. Landbruksentomologiska avdelningen.

Sweden - Statens växtskyddsanstalt. Meddelande. no. 1. il. 80. Stockholm, 1933.

With Flygblad, continues Sweden - Centralanstalten för försöksväsen på jordbruksområdet. Meddelanden. Landbruksentomologiska avdelningen.

World's agricultural journal; monthly review of agricultural associations for international agricultural policy, technique and finances; Revue universelle d'agriculture ... Landwirtschaftliches weltblatt ... Budapest. (U. S. Agent: Turner subscription agency, 30 Irving Place, New York. Box 16, Station D.) mo. fo. v. 1, no. 1. April 1933. Yearly subscription, svfcs 10.

Zeitschrift für weltforstwirtschaft. J. Neumann in Neudamm und Berlin, S.W. 11, Anhalter Strasse 7 mo. 80. il. bd. 1, hft. 1. Oct. 1933.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture
received during August, 1933, exclusive of bibliographies* and current issues
of serials.**

Address [on effect of agricultural adjustment act on cooperative movement] by
Henry A. Wallace before the American Institute of cooperation, Raleigh,
N. C., July 24, 1933, 7 p. m. 9 p.

Address [on folly of unplanned competitive production] of the Secretary of
Agriculture, Henry A. Wallace, over the Columbia broadcasting system,
Washington, D. C., Monday, August 21, 1933, at 10:30 p. m. 6 p.

a program for the corn belt. Address by Henry A. Wallace at Farmers' week,
Century of progress, August 18, 1933, 12:30 p. m., central standard time,
broadcast over NBC and Columbia networks. 9 p.

Trends and shifts in world agricultural production. Address by Henry A.
Wallace before the American Country life association, Blacksburg, Va.,
August 3, 1933, 7 p. m. 13 p.

Our lands in order. Remarks of Rexford G. Tugwell over the NBC network,
Washington, 10:15 p. m., August 4, 1933. 7 p.

The agricultural adjustment program. Address by Dr. A. F. Woods, delivered
before the Maryland Farm bureau muster, Day meeting, Shilo Park, August 23,
1933. 5 p.

Agricultural Adjustment Administration

The Application of the Agricultural adjustment act to the cotton cooperative.
Address by Cully A. Cobb, delivered at the American Institute of cooper-
ation, Raleigh, N. C., Tuesday, July 25, 1933. 7 p.

Application of the Agricultural adjustment act to tobacco. Address delivered
at the American Institute of cooperation, Raleigh, N. C., July 28, 1933,
by J. B. Hutson. 9 p.

Production control policies and mechanism in the Agricultural adjustment
act. Address by Chester C. Davis, delivered before the American Insti-
tute of cooperation at Raleigh, N. C., Friday, July 28. 10 p.

Summary of emergency hog marketing program under powers granted the Secretary
of Agriculture by the Agricultural adjustment act. 6 p.

Bureau of Agricultural Economics

Average monthly wholesale prices and price relatives for fresh dressed poultry
at New York City. By Gordon W. Sprague. 31 p. (Issued by Division of
dairy and poultry products)

*For bibliographies, see page 55.

**For a list of the principal series issued regualrly, see v. 4, no. 1-2,p.347

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(cont'd)

- Characteristics of agricultural supply and demand curves. By L. H. Bean. 6 p. (Issued by Division of statistical and historical research)
Summary of address before section K of the American association for advance of science, in a joint program with the Econometric society, Syracuse, N. Y., June 22, 1932.
- The consumer and the standardization of farm products. By Caroline F. Sherman. Rev. 1933: 8 p. (Issued by Division of economic information)
- Farm-mortgage terms and conditions, 1932-1933 (Preliminary). By David L. Wickens. 10 p. (Issued by Division of agricultural finance)
- International trade restrictions and other governmental measures affecting tobacco and tobacco prices in the United States. By W. G. Finn. 22p.
This survey appears as Chapter X in a printed report entitled "World trade barriers in relation to American agriculture", Senate Document no. 70, 73d Congress, 1st session.
- International trade restrictions and other governmental measures affecting wheat and wheat prices in the United States. By E. J. Working. 27 p.
This survey appears as Chapter VIII in a printed report entitled "World trade barriers in relation to American agriculture", Senate Document no. 70, 73d Congress, 1st session.
- Is it practicable to scour wool near the source of origin? By Warner M. Buck. 4 p. (Issued by Division of livestock, meats, and wool)
- Methods used by growers in marketing grapes; grape prices, grades, and consumption per capita, New York, Pennsylvania, Michigan, and Arkansas vineyards. A preliminary report. By G. P. Scoville. 71 p. (Issued by Division of farm management and costs in cooperation with the state colleges of agriculture)
- National law providing for compositions and extensions of agricultural indebtedness. 6 p.
- Official standards for potatoes. Effective September 15, 1933. 8 p.
- Rules and regulations of the Secretary of Agriculture and instructions of the chief of the Bureau of agricultural economics governing origin verification of seed. Effective August 1, 1933. 36 p.
- Studies of color in raw cotton. A preliminary report. By Dorothy Nickerson and Leona Dilworth Milstead. 22 p. (Issued by Division of cotton marketing in cooperation with Texas agricultural experiment station and with the assistance of the U. S. Bureau of plant Industry, South Carolina agricultural experiment station, Mississippi agricultural experiment station, Delta Branch)

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Bureau of Agricultural Economics (cont'd)

Studies of stability of color in raw cotton. A preliminary report. By Dorothy Nickerson and Leona Dilworth Milstead. 22 p. (Issued by Division of cotton marketing.)

Summary of the apple and pear export season, 1932-33. By ^d. A. Motz and A. C. Edwards. 60 p. F. S. A-435. (Issued by Foreign agricultural service)

Bureau of Agricultural Engineering

Farmers' irrigation district, Nebraska. Rehabilitation and agricultural report, by Division of irrigation. Paul A. Ewing, Wells A. Hutchins, with Classification of lands, by University of Nebraska Conservation and survey division and Agricultural experiment station. May, 1933. 93 p.

Plan of rehabilitation for Little river drainage district, southeastern Missouri. By Lewis A. Jones, Wells A. Hutchins, and G. R. Shier. 40 p. (Issued by Division of drainage and erosion control in cooperation with the University of Missouri College of agriculture)

Prospectus on rural electrification in the Tennessee river basin. By George W. Kable. 45 p.

Terracing, the first step in erosion control. By S. P. Lyle, presented at the Illinois farm advisors' summer conference, June 13, 1933. 10 p. (Issued in cooperation with Extension service.)

Bureau of Animal Industry

Report of the Conference of animal husbandry and other specialists on southern livestock problems at New Orleans, Louisiana, January 30 and 31, 1933. 17 p.

Some relationships among factors in the production and grade of beef. By O. G. Hankins and L. B. Burk. 33 p.

Bureau of Chemistry and Soils

How to make best quality sorghum sirup. 3 p.

Report of study of factors affecting the uniformity of quality of sugars. Methods used in analyzing sugars, 1932-1933. By J. A. Ambler, S. Byall, and R. L. Holmes. 15 p. (Issued by Carbohydrate division)

Sorghum sirup. How to prevent "jellying" and "slow boiling", and how to prevent sugaring. 4 p.

Statistics on consumption and stocks of naval stores for 1932. 4 p.

The use of wheat germ as a human food. By J. A. LeGlerc and L. H. Bailey. 3 p. (Issued by Food research division)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Bureau of Dairy Industry

Variations recorded in the study of the conformation and anatomy of 318 dairy cows having records of production. By W. W. Swett, Fred S. Miller, R. R. Graves, and C. A. Mathews. 6 p. BDIM-589. (Issued by Division of dairy-cattle breeding, feeding, and management.)

Bureau of Entomology

Progress report of experiments on the control of cabbage worms. 14 p. E-309. (Issued by Division of truck crop and garden insects)

Extension Service

Adding to the family living and income. By Ola Powell Malcolm. 5 p. Extension service circular 191. (Issued by Office of cooperative extension work)

Junior conferences, seventh National 4-H club camp. Washington D. C., June 15-21, 1933. 22 p. (Issued by Office of cooperative extension work)

Results of legume extension in three southeast Missouri counties representing three stages in the development of a state-wide legume program. A study of 639 farms in Cape Girardeau, Jefferson and Scott counties, Missouri, 1930. By M. C. Wilson and Ide P. Trotter. 31 p. Extension service circular 188. (Issued by Office of cooperative extension work)

Bureau of Plant Industry

Avocado culture in Florida. By T. Ralph Robinson. July, 1933. 13 p. (Issued by Division of fruit and vegetable crops and diseases)

Field methods of eradicating wild currant and gooseberry bushes. By E. C. Filler. 15 p. (Issued by Office of blister rust control)

Handbook of barberries. By Lawrence M. Ames and Willa L. Ames. v.p. (Issued by Division of barberry eradication)

Horticultural organizations of the United States and Canada. Compiled by Magdalene R. Newman. 33 p. (Issued by Division of fruit and vegetable crops and diseases)

Organizations dealing with the handling and merchandising of horticultural products in the United States and Canada. Compiled by Magdalene R. Newman. 13 p. (Issued by Division of fruit and vegetable crops and diseases)

Bureau of Public Roads

Rules and regulations for carrying out the provisions of Title II of the National industrial recovery act for constructing public highways and related projects in accordance with provisions of the Federal highway act. 13 p.

AGRICULTURAL LIBRARIES SECTION MEETING

Chicago, Illinois

Miss Cora Miltimore, Librarian, University of Florida, Chairman.

Miss Jessie M. Allen, Librarian, Bureau of Plant Industry, U. S. Department of Agriculture, Secretary.

Tentative Program

Monday, October 16, 2:30 p. m.

Round Table: Discussion leader, Jackson E. Towne, Librarian,
Michigan State College.

"Books and their uses in agricultural experiment
station libraries." Discussion opened by leader.

"An agricultural periodical of the Civil War period,
its historical significance."

In the Northern States. Discussion opened by
W. B. Kershaw, Evening Reference Librarian,
Michigan State College.

In the Southern States. Discussion opened by
J. A. McMillen, Librarian, Louisiana State
University.

"Readings for graduate students in the agricultural
sciences." J. W. Crist, Associate Professor in
Horticulture, Michigan State College.


Business Meeting.

Informal discussion of topics suggested by members of the Section.

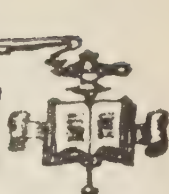
Thursday, October 19, 4:00 p. m.

Visit to the private library of Dr. C. H. Thordarson.

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AGRICULTURAL LIBRARY NOTES



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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D.C.

PRINCIPAL LIBRARY ACCESSIONS

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- BUNSCHOTEN, G. E. Invloed van de voeding op de virulentie van schimmels. Baarn, 1933. Proefschrift. Utrecht.
- ENCYCLOPÆDIA BRITANNICA. Botany: plants and gardening. New York, 1933.
- ENCYCLOPÆDIA BRITANNICA. Botany, the science. New York, 1933.
- HAMBURG. BOTANISCHER VEREIN. Festschrift aus Anlass der vierzigsten Wiederkehr des Gründungstages 7. Januar 1891 - 7. Januar 1931. Hamburg, 1931.
- JAGER, HENDRIK DE. Ziekteverschijnselen van enkele cultuurgewassen als gevolg van de inwerking van keukenzout. Baarn, 1933. Proefschrift. Utrecht.
- KRENKE, N. P. Wundkompensation, transplantation und chimären bei pflanzen. Berlin, Springer, 1933.
- LEE, J. R. The flora of the Clyde area. Glasgow, J. Smith, 1933.
- LIVERPOOL. PUBLIC MUSEUMS. Handbook and guide to the gallery of economic botany. Liverpool, 1933.
- REDMOND, F. J. A flora of Worcester county, Maryland. Washington, 1932. (Contribution from the Biological laboratory of the Catholic university of America, no. 11)
- WARMING, EUGENIUS. Lehrbuch der ökologischen pflanzengeographie. Ed. 4. Berlin, Borntraeger, 1933.
- WERDERMANN, ERICH. Brasilien und seine säulentalteen. Neudamm, Neumann, 1933.
- WETTSTEIN, RICHARD. Handbuch der systematischen botanik. Ed. 4. v. 1. Leipzig, Deuticke, 1933.

Chemistry, Chemical Technology and Pharmacy

- APPFEL, HEINZ. Beiträge zur wassergehaltsbestimmung von cellulosehaltigen faserstoffen. Bückeburg, 1932. Diss. Tech.hochschule, Darmstadt.
- AYKROYD, W. R. Vitamins and other dietary essentials. London, Heinemann, 1933.
- FISCHER, RUDOLF. Beitrag zur kolloid-chemischen betrachtung von mehl und backfähigkeit. Dresden, 1933. Diss. Tech.hochschule, Dresden.
- HOPKIN & WILLIAMS LTD. RESEARCH LABORATORY. Organic reagents for metals. London, 1933.
- MARCHIONNA, FREDERICK. Latex and its industrial applications. New York, Rubber age, 1933.
- OPPENHEIMER, KARL. Chemische grundlagen der lebensvorgänge. Leipzig, Thieme, 1933.
- REILLY, JOSEPH, and RAE, W. H. Physico-chemical methods. Ed. 2. London, Methuen, 1933.
- SMITH, G. F. Ceric sulfate. Ed. 2. Columbus, O., Smith Chemical company, 1933.
- SFIRA, LEO. The clinical aspect of chronic poisoning by aluminium and its alloys. London, Bale, sons & Danielsson, 1933.
- SWITZERLAND. PHARMAKOPÖEKOMMISSION. Pharmacopoea helvetica. Ed. 5. Bern, 1933.
- TRUMPER, MAX, and CANTAROW, ABRAHAM. Biochemistry in internal medicine. Philadelphia, Saunders, 1933.

PRINCIPAL LIBRARY ACCESSIONS
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Children

RAZDAN, G. H. S. Conditioned responses in children. New York, 1933.
(Archives of psychology, no. 148)

Dairying

GRATZ, OTTO. Schafmilchkäserei. Hildesheim, Molkerei-zeitung, 1933.
SOMMER, H. H. Market milk and related products. Madison, Wisc., 1933.
Mimeographed.

Domestic Animals

DAY, G. E. Productive swinehusbandry. Ed. 5. Chicago, Lippincott, 1933.
(Lippincott's farm manuals, ed. by K. C. Davis)
HARRISON, FAIRFAX. The equine F F Vs. (in Virginia magazine of history and
biography, 35:329-370. October, 1927. Richmond).
JUDY, W. L. Principles of dog breeding; a presentation of heredity in
dogs. Chicago, Judy. 1930.
QUEENSLAND. DEPT. OF AGRICULTURE AND STOCK. The pig farm, accommodation
and equipment by L. A. Downey. Brisbane, 1932.
SERUIJT, C. A. M. Toy pigeons and other continental races. Translated by
E. C. Hughes. The Hague, Nijhoff, 1927.

Economics, Statistics, Taxation, and Finance.

ATTERT, EMIL. Die bäuerliche wirtschaft und das system ihrer wissenschaft.
Leipzig, 1931. Habilitationsschrift. Leipzig.
AMERICAN BANKERS' ASSOCIATION. AGRICULTURAL COMMISSION. Making farm invest-
ments safe. Madison, 1933.
AMERICAN LIBRARY ASSOCIATION. Exploring the times. no.1. World depression -
world recovery, by H. D. Giddens. no.2. Collapse or cycle? by F. H.
Douglas. no. 3. Living with machines, by W. F. Ogburn. no. 4. Meeting
the farm crisis, by J. H. Kelb. no. 5. Less government or more? by Louis
Brownlow and C. S. Ascher. Chicago, 1933.
AUSTRALIA. DEPT. OF COMMERCE. The orderly marketing of Australia's surplus
products through export control boards. Canberra, 1932.
BALLOU, H. A. Report on the progress made in organizing the cotton growers
association in certain West Indian islands and suggestions for forming a
West Indian cotton growers association. Trinidad, 1933. Mimeographed.
CALIFORNIA. DEPT. OF AGRICULTURE. DIVISION OF MARKETS. Cost of distribut-
ing market milk in San Francisco - thirteen San Francisco distributors
for the year 1931. San Francisco, 1932. Mimeographed.
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CANADA. BUREAU OF STATISTICS. INDUSTRIAL STATISTICS BRANCH. Food products,
beverages, rubber, tobacco and miscellaneous manufactures based on
vegetable products, 1917-27. Ottawa, 1929.
CHINA. MINISTRY OF INDUSTRIES. Price indexes in China and foreign countries.
Nanking, 1932.

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- CZECHOSLOVAK REPUBLIC. STÁTNÍ ÚRAD STATISTICKÝ. Arbres et arbustes fruitiers dans la République Tchécoslovaque d'après l'état au 20 septembre 1930. Prague, 1932. (Ceskoslovenská statistika. La statistique tchécoslovaque. v. 86, ser. 12 (Agriculture, 18.livr.))
- DAWSON, STEPHEN. An introduction to the computation of statistics. London, 1933.
- DAY, CLIVE. Economic development in modern Europe. New York, Macmillan, 1933.
- DULANEY, B. B. An economic and social survey of Washington County. Charlottesville, 1932. (University of Virginia record. Extension series. v. 17, no.6)
- EULER, ERNST. Voraussetzungen eines rationellen absatzes am deutschen schlachtgeflügelmarkt unter besonderer berücksichtigung der verhältnisse am Berliner markt. Berlin, 1933. Inaug.-diss. Landw.hochschule, Berlin.
- FABIAN, FRIEDRICH. Die verschuldung der deutschen landwirtschaft vor und nach dem kriege. Barby (Elbe) 1930. Inaug.-diss. Leipzig.
- FAHRENBACH, W. E. Die bedeutung der verbesserung des dümmergebiets um Diepholz. Diepholz i. Hann., 1929. Inaug.-diss. Leipzig.
- FEDERZONI, LUIGI. I problemi attuali dell'agricoltura italiana. Bologna, Zanichelli, 1933.
- FORSTER, G. W. Farm organization and management. Raleigh, N.C., 1933. Mimeographed.
- FREDERICK, J. G. A primer of "new deal" economics. New York, Business bourse, 1933.
- GEITH, RICHARD. Die bodennutzungssysteme im sächsischen Erzgebirge und Vogtlande. Liebertwolkwitz bei Leipzig, 1930. Inaug.-diss. Leipzig.
- HALFAR, KARL. Die wirtschaftsgeographische struktur des seehafens Danzig in der vor-und nachkriegszeit. Danzig, 1931. Inaug.-diss. Greifswald.
- HASKELL, E. S. Stabilization operations of the Federal farm board. New York, American council, Institute of Pacific relations, 1933.
- HATZIUS, OTTO. Der landwirtschaftliche grundbesitz in kreise der unterherrschaft des ehem.fürstentums Schwarzburg-Sondershausen. n.p., 1930. Inaug.-diss. Leipzig.
- INTERNATIONAL INSTITUTE OF AGRICULTURE. Documentation for the Monetary and economic conference (London, 1933) Rome, 1933.
- KOENIG, PAUL, and ZELLE, ARNOLD. Die weltwirtschaft der baumwolle. Berlin, Springer, 1933. (Technologie der textildfasern, hrsg. von Herzog. IV.Bd., 4.t.)
- LAMA, ERNESTO. La cooperazione italiana nella dottrina e nella pratica. Roma, Casa editrice Pinciana, 1933.
- LEONE, GIUSEPPE. La colonizzazione agraria della Tripolitania settentrionale nel suo primo ventennio. Roma, Presidenza del Consiglio dei ministri, Commissariato per le migrazioni e la colonizzazione interna, 1933.
- MISSISSIPPI, UNIVERSITY. SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION. Mississippi's general sales tax; how it works, by J. W. Bell and others. Jackson, 1933.
- NATIONAL INDUSTRIAL CONFERENCE BOARD. The situation in Germany at the beginning of 1933. New York, 1933.

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- ORWIN, C. S. Financing the farmer; a scheme to provide short-term credit for agriculture. Oxford, University of Oxford, Agricultural economics research institute, 1933.
- PIGOU, A. C. The theory of unemployment. London, Macmillan, 1933.
- PREIDENT'S RESEARCH COMMITTEE ON SOCIAL TRENDS. Report on social statistics in the United States, by Stuart A. Rice, with the assistance of Florence DuBois. v.1-4. Ann Arbor, Mich., Edwards, 1933.
- REIMANN, A. I. Die heimstättengesetze der Vereinigten Staaten von Nord-Amerika. Engelsdorf-Leipzig, 1931. Inaug.-diss. Leipzig.
- RUDLOFF, WILHELM. Die kreditpolitik der sparkassen nach der stabilisierung der währung. Berlin, 1932. Inaug.-diss. Greifswald.
- SCOTLAND. DEPT. OF AGRICULTURE. Report on the marketing of live stock in Scotland. Edinburgh, 1933.
- SODDY, FREDERICK. Money versus man. New York, 1933.
- DER STAND UND DIE NÄCHSTE ZUKUNFT DER KONJUNKTURFORSCHUNG. Festschrift für Arthur Spiethoff. München, Duncker & Humblot, 1933.
- SVENSKA SOCKERFABRIKS AKTIEBOLAGET. Den Svenska Sockerindustrien. v. 1. Malmö, 1932.
- TEAD, ORDWAY, and METCALF, H. C. Labor relations under the Recovery act. New York, Whittlesey house, 1933.
- TEXAS. LEGISLATIVE TAX SURVEY COMMITTEE. Report. Austin, 1933.
- WINKLER, KARL. Die landwirtschaftlichen betriebsverhältnisse in Moorriem. Brake (Oldb.), 1929. Inaug.-diss. Leipzig.
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- WOOFER, T. J. Races and ethnic groups in American life. New York, McGraw-Hill, 1933. (Recent social trends monographs)

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Field Crops, Woods

- BARLEY IMPROVEMENT CONFERENCE, MINNEAPOLIS, 1933. ORGANIZATION COMMITTEE. Report. Minneapolis, National grain journal, 1933.
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- EVELYN, S. H. Cotton cultivation Carriacou. Grenada, Govt.print.off., 1931.
- MERKENSCHLAGER, FRITZ, and KLIMKOWSKI, M. Pflanzliche Konstitutionslehre. Berlin, Percy, 1933.
- SUDAN. DEPT. OF AGRICULTURE AND FORESTS. The cultivated crops of the Sudan including cotton. By W. A. Davie. Khartoum, 1924.

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Food

- EDDY, W. H. The nutritive value of the banana. New York City, Teachers college, Columbia university, 1933.
- HUTCHISON, ROBERT, and MOTTRAM, V. H. Food and the principles of dietetics. Ed. 7. London, Arnold, 1933.
- KILLIAN, J. A. The nutritional value of canned pineapple. San Francisco, Educational committee, Pineapple producers cooperative association, 1933.
- RICHARDS, PAUL. Breads, rolls and sweet dough. Ed. 2. Chicago, Bakers' helper co., 1932.

Forestry, Conservation

- BRITISH GUIANA. FORESTRY DEPT. Timbers of British Guiana. Notes on four timbers. Georgetown, 1933.
- IOWA. BOARD OF CONSERVATION. Report on the Iowa twenty-five year conservation plan. Des Moines, 1933.
- KENYA COLONY AND PROTECTORATE. FOREST DEPT. The future of forestry in Kenya, by J. W. Nicholson. Nairobi, 1931.
- MARSHALL, R. C. Report on forestry in Grenada. Grenada, Govt. Print. Off., 1932.

Horticulture

- CALIFORNIA. DEPT. OF PUBLIC WORKS. DIVISION OF HIGHWAYS. California highway roadside beautification survey. Progress report. Sacramento, 1933.
- CLAIBORNE, ELIZABETH. Manual of gardening for use in the central southern states. Nashville, Parthenon press, 1932.
- TRIGGS, K. F. The garden parlor. Indianapolis, Colortype corporation, 1933.

Implements and processes

- HERCULES POWDER CO. Hercules dynamite on the farm. Wilmington, Del., 1933.
- REED, C. O. Modern studies in agriculture. Farm machinery group. Mowers. Columbus, O., 1933. Mimeographed.

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Pathology

- JACOBSON, H. P. Fungous diseases. Springfield, Ill., Thomas, 1932.
- WU, LIEN-TEH., and POLLITZER, R. A new survey of plague in wild rodents and pneumonic plague. Shanghai, China, 1933. Reprinted from National quarantine service reports. Ser. 3.

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Photography

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Roads, Engineering

AMERICAN SOCIETY FOR TESTING MATERIALS. Symposium on motor lubricants. Philadelphia, 1933.

GENERAL ELECTRIC COMPANY. ILLUMINATING ENGINEERING LABORATORY. General information on bridge illumination. Schenectady, N. Y., 1933.

POWER. Power handbook on fuels, by Guy Mankin, New York, 1931.

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- Farm tree planting. S. C. Clarke. (Idaho Agr. Col. Ext. Circ. 46) Moscow, 1933.

*Prepared in the Office of Experiment Stations Library.

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Illinois

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Massachusetts

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Minnesota

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The winter cook book. F. Smith. (Mont. Agr. Col. Ext. Bul. 113, rev.) Bozeman, 1932.

4-H sheep club manual. I. M. C. Anderson. (Mont. Agr. Col. Ext. Bul. 134) Bozeman, 1933.

Home clothes club: First year 4-H club clothing. M. G. Euren. (Mont. Agr. Col. Ext. [Bul.] 139) Bozeman, 1933.

4-H bred gilt manual. D. E. Richards. (Mont. Agr. Col. Ext. Circ. 53) Bozeman, 1933.

The 4-H market hog. I. M. C. Anderson. (Mont. Agr. Col. Ext. Circ. 54) Bozeman, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER, 1933
(continued)

New York

- Slip covers. C. B. McIlroy. (N. Y. Agr. Col. (Cornell) Ext. Bul. 259) Ithaca, 1933.
Homemade play materials. M. B. Fowler. (N. Y. Agr. Col. (Cornell) Ext. Bul. 260) Ithaca, 1933.
Pools for home grounds. D. J. Bushey. (N. Y. Agr. Col. (Cornell) Ext. Bul. 265) Ithaca, 1933.
Some results of dairy-herd improvement associations. W. T. Crandall and G. W. Tailby. (N. Y. Agr. Col. (Cornell) Ext. Bul. 266) Ithaca, 1933.

Utah

- The day's food supply. E. Miller. (Utah Agr. Col. Ext. New Series Circ. 24, rev.) Logan, 1933
College Ser. 287.

Washington

- Home storage of fruits and vegetables. H. D. Locklin. (Wash. State Col. Agr. Ext. Bul. 179) Pullman, 1933.
Hardy flowers, shrubs, trees and vines for Washington homes. J. R. Herman. (Wash. State Col. Agr. Ext. Bul. 181) Pullman, 1933.
Handy homecraft for young men. Project outline. (Wash. State Col. Agr. Ext. 4-H Circ. 20) Pullman, 1933.
A 4-H pig club program for Washington. H. McDonald. (Wash. State Col. Agr. Ext. 4-H Club Circ. 21) Pullman, 1933.
References, p. 10.
A 4-H beef club program for Washington. H. McDonald. (Wash. State Col. Agr. Ext. 4-H Club Circ. 22) Pullman, 1933.
A 4-H sheep club program for Washington. H. McDonald. (Wash. State Col. Agr. Ext. 4-H Club Circ. 23) Pullman, 1933.
The handy homecraft project for young men. (Wash. State Col. Agr. Ext. 4-H Club Circ. 24) Pullman, 1933.

Wyoming

- Turkey raising in Wyoming. O. N. Summers. (Wyo. Agr. Col. Ext. Circ. 26, 2d rev.) Laramie, 1933.
The planting and care of shelterbelts in Wyoming. W. O. Edmondson. (Wyo. Agr. Col. Ext. Circ. 27, rev.) Laramie, 1933.
Wyoming agricultural situation for 1933. A. W. Willis and others. (Wyo. Agr. Col. Ext. Circ. 45) Laramie, 1933.
Soil blowing in Wyoming. D. R. Sabin. (Wyo. Agr. Col. Ext. Circ. 46) Laramie, 1933.
Recreation for Wyoming 4-H clubs. B. M. Marston. (Wyo. Agr. Col. Ext. Circ. 47) Laramie, 1933.
Home economics judging for Wyoming 4-H clubs. E. Jennings, B. Forest, and B. W. Marston. (Wyo. Agr. Col. Ext. Circ. 50) Laramie, 1933.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture

received during September, 1933, exclusive of bibliographies* and current issues of serials.**

The corn-hog problem. Henry A. Wallace. Statement made to the executive committee of the National corn-hog producers' Committee of twenty-five. Sept. 7, 1933. 5 p. (Press release.)

Farm with your neighbor. Remarks of H. A. Wallace over an N. B. C. network, from Washington, Sept. 24, 1933. 6 p.

The long view. Remarks of Hon. H. A. Wallace on American legion program, Columbia broadcasting system, Washington, D. C., August 31, 1933. 6 p.

The milk question. Remarks by H. A. Wallace at the New York state fair, Syracuse, Sept. 5, 1933. 8 p.

The restoration of rural life. Statement by Secretary of agriculture Henry A. Wallace, read by Dr. A. F. Woods before the 58th annual meeting of the American forestry association at Forest Hills hotel, Franconia, N. H., Sept. 6, 1933. 4 p.

Supply and demand, political pressure and the long look ahead. H. A. Wallace. Address before the Grain dealers assn., Chicago, Ill., Sept. 20, 1933. 14 p.

Advertising and the new Food and Drugs bill. By R. G. Tugwell. 12 p.

What distribution can contribute to farm relief. Address by Dr. Mordecai Ezekiel before the Boston Conference on retail distribution, Sept. 19, 1933. 8 p.

The restoration of rural life. Address delivered by Dr. A. F. Woods before the American forestry association, Forest Hills hotel, Franconia, N. H., Sept. 6, 1933. 4 p.

Agricultural Adjustment Administration

Address on purposes of Agricultural adjustment administration made at the American Institute of cooperation, Raleigh, N. C., July 27, 1933, for General William I. Westervelt. 10 p.

The battle of a million fronts. Address of General William I. Westervelt at Convention of American war mothers at Indianapolis, Sept. 26, 1933. 12 p.

Industrial and agricultural adjustments. Address delivered by Charles J. Brand before the Intermountain economic conference in joint session with the board of directors of the United States Chamber of commerce, at Colorado Springs, September 22, 1933. 20 p.

*For bibliographies, see page 94.

**For a list of the principal series issued regularly, see v.4, no.1-2, p.347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration (continued)

Summary of emergency hog marketing program under powers granted the Secretary of agriculture by the Agricultural adjustment act. 6 p.

Bureau of Agricultural Economics

Butter production trends. By E. E. Vial. 8 p. (Issued by Division of statistical and historical research.)

Address, the 26th annual convention, International association of milk dealers, Chicago, Ill., Sept. 21, 1933.

Farm production and income from meat animals. 1931 & 1932. 17 p.

A graphic summary of American cotton production, consumption, and prices. Compiled by L. D. Howell and Rodney Whitaker. 32 p. (Issued by Division of Cotton marketing).

Inspection station address list. Inspection service on fruits and vegetables. Revised Sept. 1, 1933. 9 p. (Issued by Division of fruits and vegetables)

Truck receipts of fresh fruits and vegetables at 10 important markets for calendar years 1932 and 1931 stated in car-lot equivalents by months for 1932 and totals for 1932 and 1931. 33 p.

Bureau of Agricultural Engineering

Brief instructions on methods of gully control. By C. E. Ramser. August 1933. 35 p. (Issued by Division of drainage and soil erosion control.)

Discharge of drains serving irrigated lands. By L. T. Jessup. Sept. 1933. 65 p. (Contribution from Division of irrigation.)

Procedure for making draft tests of plows, directions for making square yard harvests of legumes, and description and use of soil sampling tube. Prepared in cooperation with the Ohio Agricultural experiment station. Sept. 1933. 17 p.

Bureau of Animal Industry

Age as a factor in brood-sow performance. By E. Z. Russell. 4 p. (Issued by Division of Animal Husbandry)

The relation of birth weight to gains of pigs. By E. Z. Russel. 3 p. (Issued by Division of Animal Husbandry)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Bureau of Biological Survey

Amended regulations under the migratory bird treaty act for the season 1933-1934. Sept. 1933. 8 p.

The condition of our waterfowl. Address by W. C. Henderson at the meeting of the International Association of game, fish and conservation commissioners at Columbus, Ohio, Sept. 22, 1933. 8 p.

Feed cost of producing young rabbits to weaning age. Leaflet Bi-1294. 3 p. Aug. 1933.

How game and fur farmers can use Biological Survey's aid in combating wildlife diseases. Leaflet Bi-1266. 2 p. Sept. 1933.

Pertinent facts on the Angora wool rabbit. Leaflet Bi-1292. 1 p. Aug. 1933.

Poisoning chipmunks. Leaflet Bi-1289. 1 p. July 1933.

Raising guinea pigs. Leaflet Bi-1291. 2 p. Aug. 1933.

Bureau of Dairy Industry

Address list of national and international dairy associations. 1933. 3 p. (BDIM-475)

Publications relating to the dairy industry. Revised to August 1933. 7 p.

Roughage rations for dairy cows make less milk and more profit. 12 p.

A study of certain phases of the economics of dairy-cattle feeding. By R. R. Graves and J. B. Shepherd. 26 p. (Issued by Division of dairy cattle breeding, feeding, and management)

Extension Service

The farm home of the future. By Ola Powell Malcolm. 9 p. Extension service circular 190. (Issued by Office of cooperative extension work)

Functions and activities of state extension specialists. By T. Roy Reid and M. C. Wilson, Sept. 1933. 41 p. Extension service circular 189. (Issued by Office of cooperative extension work)

SELECTED LIST OF MINEOGRAPHED PUBLICATIONS
(continued)

Food and Drug Administration

(A series of articles explanatory of the provisions of the food and drugs bill (S 1944) introduced into the Senate by Senator Royal S. Copeland, June 12, 1933)

A summary of the new Food and Drugs Bill (S 1944).

Why we need a new "Pure Food Law".

Article No. 1. Beauty at cost.

Article No. 2. Contraptions --- or cures?

Article No. 3. Ballyhoo or truth?

Article No. 4. How much poison is poison?

Article No. 5. Standards for some foods --- why not for all?

Article No. 6. Patent medicine lies cost human lives.

Article No. 7. Drugs --- beneficial or deadly?

Article No. 8. Must the housewife beware?

Bureau of Plant Industry

Austrian winter pea. By Roland McKee and H. A. Schoth. 3 p. (Issued by Division of forage crops and diseases)

Avocado fruit spots and their control. By H. E. Stevens and H. R. Fulton. 3 p. (Issued by Fruit and vegetable crops and diseases)

Fungous specimens available for exchange. V. June 30, 1932. 60 p. (Issued by Division of mycology and disease survey)

Mildew of herbaceous ornamentals. By Freeman Weiss. Sept. 1933. 2 p. (Issued by Division of fruit and vegetable crops and diseases)

Rose canker diseases. By Philip Brierley. Sept. 1933. 2 p. (Issued by Division of fruit and vegetable crops and diseases)

Stem rot and wilt of carnations. By Freeman Weiss. Sept. 1933. 3 p. (Issued by Division of fruit and vegetable crops and diseases)

Bureau of Public Roads

Compilation of laws of the several states relating to outdoor advertising. August 30, 1933. 85 p.

Supplement to "A compilation of the laws of the forty-eight states relating to the protection of the public at points where railroads intersect highways at grade, including grade crossing elimination acts." 72 p.

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CORRECTION

Through an unfortunate mistake, the paper of Dr. J. Christian Bay entitled "Response of Science to Agriculture" was omitted from the program of the Agricultural Libraries Section meeting as given in the September issue of Agricultural Library Notes. Dr. Bay's paper is the first and main paper of the meeting.

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WASHINGTON
D.C.

AGRICULTURAL LIBRARY NOTES

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PRINCIPAL LIBRARY ACCESSIONS

Advertising

- GUNDLACH, E. T. Facts and fetishes in advertising. Chicago, Consolidated book publishers, 1931.
- HOTCHKISS, G. B. An outline of advertising. New York, Macmillan, 1933.

Agricultural Congresses

- CONGRÈS DE L'OUTILLAGE ET DES AMÉLIORATIONS AGRICOLES, PARIS, 1931. Congrès, organisé par la Chambre syndicale des constructeurs français de machines agricoles. Paris, Quinzaine nationale de la production agricole d'outre-mer, 1931.
- CONGRÈS DES PRODUCTIONS VÉGÉTALES COMMUNES À LA MÉTROPOLE ET AUX PAYS D'OUTRE-MER, PARIS, 1931. Congrès, organisé par la Société des agriculteurs de France. Paris, Quinzaine nationale de la production agricole d'outre-mer, 1931.
- CONGRÈS DES PRODUITS SPÉCIFIQUEMENT COLONIAUX, PARIS, 1931. Congrès, organisé par l'Union coloniale française. Paris, Quinzaine nationale de la production agricole d'outre-mer, 1931.
- CONGRÈS DU PERFECTIONNEMENT DE L'AGRICULTURE INDIGÈNE, PARIS, 1931. Congrès, organisé par l'Union coloniale française. Paris, Quinzaine nationale de la production agricole d'outre-mer, 1931.
- CONGRÈS NATIONAL DES TEXTILES VÉGÉTAUX, PARIS, 1931. Congrès, organisé par l'Association cotonnière coloniale. Paris, Quinzaine nationale de la production agricole d'outre-mer, 1931.

Apiculture

- PERRET-MAISONNEUVE, A. L'apiculture intensive et l'élevage des reines. Ed. 4. Paris, Maurice-Mendel, 1933.

Architecture

- NEWCOMB, REXFORD. The colonial and federal house. Philadelphia, Lippincott, 1933.

Biology

- CARPENTER, G. D. H. Mimicry. London, Methuen, 1933.
- CONN, H. J. The history of staining. Geneva, N. Y., Book service of the Biological stain commission, 1933.

Botany

- BANZER, G. L. Beiträge zur systematik der gattung Pedicularis unter berücksichtigung des vorkommens von esaponin. Ohlau i. Schl., 1932. Inaug.-diss. Berlin.
- FISCHER, HERBERT. Beiträge zur physiologie einiger papilionaceen mit besonderer berücksichtigung von Phaseolus multiflorus. Regensburg, 1932. Genehmigte abhandlung. Tech. hochschule, München.
- MÜLLER, WILHELM. Wechselseitige uebertragbarkeit der verschiedenen viruskrankheiten des tabaks, der tomate und der kartoffel innerhalb der familie der solanaceen. Bonn, 1930. Inaug.-diss. Landw.hochschule, Bonn-Poppelsdorf.
- PAXINOS, S. A. Die nährstoffaufnahme der pflanzen aus ständig sich erneuernder (durchfliessender) nährlösung. Groitzsch, 1932. Inaug.-diss. Breslau.

Chemistry and Chemical Technology

- KARO, WALTER. Kunstharze (Deutsche patentliteratur). Berlin, Allgemeiner industrie-verlag, 1932.
- LONDON. SOUTH METROPOLITAN GAS COMPANY. CHEMICAL DEPT. The measurement of the viscosity of coal tars and pitches by H. Pickard. London, 1932.
- MARKLEY, K. S. The preparation, condensation-reactions and physical properties of 3-phenyl-2, 4-thiazolidione. Easton, Pa., 1933. Thesis (Ph.D.) Johns Hopkins university.
- RUBBER GROWERS ASSOCIATION (INCORPORATED) LONDON. TECHNICAL RESEARCH AND DEVELOPMENT OF NEW USES COMMITTEE. Digest of patents dealing with rubber and/or latex in road construction materials (excluding blocks). London, 1933.

Dairying

- DEAN, H. H. Dairying. Ed. 6. Toronto, Ryerson press, 1932.
- SPRENGLER, KARL. Kapillaranalytische milch-untersuchungen. Ochsenfurt a. Main, 1932. Genehmigte abhandlung. Tech.hochschule, München.
- VETTEREIN, Ernst. Ueber die forensische bedeutung des guttadiaphots bei milchuntersuchungen. Alfeld a.d.Leine, 1932. Inaug.-diss. Tierärztl. hochschule, Hannover.

Domestic Animals

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- MARSHALL, D. M. Shorthorn cattle in Canada. Toronto, Dominion shorthorn breeders' association, 1932.
- MCKAY, W.J.S. The evolution of the endurance, speed and staying power of the racehorse. New York, Scribner, 1933.
- SPINDLER, A. Le cheval à l'époque du moteur. Paris, Berger-Levrault, 1933.

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Economics, Statistics, and Finance

- APPELT, HERBERT. Die stellung des deutschen ackerbaues in einer europäischen zollunion. Jena, 1928. Inaug.-diss. Jena.
- BANQUE UNION FINANCIÈRE D'ANVERS. OFFICE DE LIQUIDATION DES OPÉRATIONS À TERME EN CÉRÉALES. Règlement pour les affaires à terme en céréales. Blés. Anvers, 1933.
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- BATSON, H. E. The price policies of German public utility undertakings. London, Oxford university press, 1933.
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- CALIFORNIA. LEGISLATURE. SENATE. FACT-FINDING COMMITTEE. Final report. Sacramento, 1933.
- COLE, G. D. H., and COLL, MARGARET. The intelligent man's review of Europe to-day. London, Gollancz, 1933.
- COLE, G. D. H. What everybody wants to know about money. London, Gollancz, 1933.
- CONNECTICUT. TAX COMMISSIONER. Causes of the financial breakdown of the local government of Fall River, Mass., and means taken by Massachusetts to re-establish the finances of that city. Comp. by John R. Donahue. Hartford, 1933.
- CONOLLY, VIOLET. Soviet economic policy in the East: Turkey, Persia, Afghanistan, Mongolia and Tana Tuva, Sin Kiang. London, Oxford university press, 1933.
- FISHER, IRVIN. Inflation? New York, Adelphi, 1933.
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- INTERNATIONAL LABOR OFFICE, GENEVA. Industrial labour in Japan. Geneva, 1933. (Studies and reports. Series A (Industrial relations) no. 37)
- INTERNATIONAL LABOR OFFICE. Statistics of migration; definitions, methods, classifications. Geneva, 1932. (Studies and reports. Series N (Statistics) no. 18)
- IOWA. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS, AMES. The agricultural emergency in Iowa. Ames, 1933.
- JUDKINS, C. Trade associations in the United States. New York, American council, Institute of Pacific relations, 1933.
- KNAAPP, J. G. The hard winter wheat pools. Chicago, University of Chicago press, 1933.
- KOCH, H. H. Untersuchung über den individuellen arbeitsrhythmus an landarbeitern. Dresden, 1933. Inaug.-diss. Landw.hochschule, Berlin.
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- MASSACHUSETTS. DEPT. OF AGRICULTURE. DIVISION OF MARKETS. A comprehensive summary of receipts and estimated market value of certain products tracked into the Boston produce market from March 1 to February 28, for the years 1930-1931, 1931-1932, 1932-1933. Boston, 1933. Mimeographed.
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Economics, Statistics, and Finance

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- MIDDELDORF, HERBERT. Der einfluss einer preisänderung der hauptsächlichsten landwirtschaftlichen erzeugnisse und betriebsmittel auf umsatz und ertrag landwirtschaftlicher betriebe Niederschlesiens. Hamburg, 1932: Inaug.-diss. Landw.hochschule, Berlin.
- MINNESOTA. TAX REVISION COMMITTEE. Report of the Tax revision committee, 1933. St. Paul, 1933.
- NATIONAL INDUSTRIAL CONFERENCE BOARD: Economic reconstruction legislation of 1933. New York, 1933.
- OHIO. COMMISSION ON UNEMPLOYMENT INSURANCE. Report. Columbus, 1932-33.
- PATIL, P. C. Principles & practice of farm costing with farm studies. Bombay, Dept. of agriculture, 1933.
- PITIGLIANI, Fausto. The Italian corporative state. London, 1933.
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- VIRGINIA. DEPT. OF PUBLIC WELFARE. BUREAU OF COUNTY AND CITY ORGANIZATION. A study of welfare activities in a group of Virginia communities. Richmond, 1932.
- WELTER, ERICH. Ende und lehren der krise. Frankfurt am Main, Societäts-verlag, 1933.

Entomology

- BERRY, P. A., and MCCOUGE, J. M. La rosca prieta de los citrus y su desarrollo en Cuba. Habana, Secretaría de agricultura, comercio y trabajo, Negociado de agricultura. Sección de sanidad vegetal, 1932.
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Geology

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- HANSEN, ANDREAS. Die bewertung der weiden im nordfriesischen marschgebiet. Dessau, 1933. Diss. Landw.hochschule, Berlin.
- LIESE, HELLMUT. Der einfluss von boden und klima auf den bestand der weiden und wiesen der insel Rügen. Stolp i. Pom., 1932. Inaug.-diss. Landw.hochschule, Berlin.
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Pomology

- CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. CITRUS EXPERIMENT STATION. Addresses delivered at the 127th meeting of the Synapsis club commemorating the 20th anniversary of the establishment of the Citrus experiment station, June 5, 1933. Riverside, Calif., 1933. Mimeographed.

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- REGIONAL PLAN ASSOCIATION, INC., NEW YORK. Westchester county and the regional plan. New York, 1932.

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- KRON, HEINRICH. Die bodenverbesserungen im kreise Simmern. Bochum-Langendreer, 1933. Inaug.-diss. Landw.hochschule, Bonn-Poppelsdorf.
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- ARNOT, W. D. The kiln drying of East African timber. Nairobi, Govt. printer, 1931.

Veterinary Medicine

- BAYR, RAIMUND. Über den einfluss einiger abführmittel auf die milchsekretion (milchmenge und milchbeschaffenheit). München-Pasing, 1932. Inaug.-diss. München.
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Arizona

Clothing construction. Z. Blake (Ariz. Agr. Col. Ext. Circ. 78) Tucson, 1933.
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California

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Georgia

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L. D. Alexander. (Ga. Agr. Col. Ext. [Bul.] v. 22, no. 436) Athens, 1933.

Illinois

Common parasites of swine. R. Graham and F. Thorpe, jr. (Ill. Agr. Expt. Sta. Circ. 269, rev.) Urbana, 1933.

Kansas

Extension Progress: a report of extension work in agriculture and home economics in Kansas for the years 1930-1931. H. J. C. Umberger. (Kans. State Col. Ext. Bul. 71) Manhattan, 1932.
The Kansas agricultural outlook for 1933-1934. (Kans. State Col. Ext. Circ. 102) Manhattan, 1933.

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Massachusetts

Preparing poultry for market. By Department of Poultry Husbandry. (Mass. State Col. Ext. Leaflet 11, rev.) Amherst, 1933.
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Grapes: pest control for home vineyards. (Mass. State Col. Ext. Leaflet 100A, rev.) Amherst, 1933.
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Michigan

The home vegetable garden. C. H. Mahoney. (Mich. Agr. Col. Ext. Bul. 4, rev.) East Lansing, 1933.
Hotbeds and cold frames. C. H. Mahoney and O. E. Robey. (Mich. Agr. Col. Ext. Bul. 20, rev.) East Lansing, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING OCTOBER 1933

Michigan (continued)

- Buying fertilizers. E. C. Sackrider. (Mich. Agr. Col. Ext. Bul. 47, rev.) East Lansing, 1933.
- Growing healthy chicks. J. A. Hannah. (Mich. Agr. Col. Ext. Bul. 52, reprint [i.e. rev.]) East Lansing, 1933.
- Michigan 10 by 12 foot brooder house. E. R. Hancock and C. H. Jefferson. (Mich. Agr. Col. Ext. Bul. 63 rev.) East Lansing, 1933.
- Low cost meals for the family. A. Newberg and B. Grant. (Mich. Agr. Col. Ext. Bul. 89, rev.) East Lansing, 1932.
- Corn club work. J. R. Duncan and P. G. Lundin. (Mich. Agr. Col. Ext. Club Bul. 7, rev.) East Lansing, 1933.
- Vegetable cookery. M. Dundas. (Mich. Agr. Col. Ext. Course Notes 97) East Lansing, 1933.

Minnesota

- Soil erosion: causes and methods of control. H. B. Roe. (Minn. Univ. Agr. Ext. Spec. Bul. 160) University Farm. St. Paul, 1933.

Missouri

- The health and first aid project. M. E. Stebbins and S. H. Chiles. (Mo. Agr. Col. Ext. 4-H Club Circ. 15 [rev.]) Columbia, 1932.

Montana

- The Montana agricultural outlook. P. Carpenter. (Mont. Agr. Col. Ext. Circ. 60) Bozeman, 1933.

New York

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- Letters from a homemaker to her friend on house cleaning. E. M. Cushman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 262) Ithaca, 1933.
- Letters from a homemaker to her friend on household management. E. M. Cushman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 263) Ithaca, 1933.
- Letters from a homemaker to her friend on kitchen improvement. E. M. Cushman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 264) Ithaca, 1933.
- Woody plants that tolerate shade. R. T. Curtis and D. Wyman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 263) Ithaca, 1933.
- Butter-making on the farm. E. S. Guthrie. (N. Y. Agr. Col. (Cornell) Ext. (Bul. 269) Ithaca, 1933.

Oregon

- Beekeeping in Oregon. H. A. Scullen. (Oreg. Agr. Col. Ext. Bul. 462) Corvallis, 1933.
- Chick brooding. F. E. Fox. (Oreg. Agr. Col. Ext. Bul. 465) Corvallis, 1933.
- Dampy mildew of hops. G. R. Hoerner. (Oreg. Agr. Col. Ext. Bul. 466) Corvallis, 1933.
- Calliopsis for production. F. E. Fox. (Oreg. Agr. Col. Ext. Bul. 467) Corvallis, 1933.

SELECTED LIST OF mimeographed PUBLICATIONS

Of the U. S. Department of Agriculture
received during October, 1933, exclusive of bibliographies* and current
issues of serials.**

The corn and hog problem. Remarks by Secretary Wallace, National farm and
home hour, NBC, Oct. 12, 1 p. m. 8 p.

The Copeland bill - and the food industries. By Rexford G. Tugwell.
Oct. 24. 9 p.

Economic bases of present U. S. farm relief efforts. Address by Mordecai
Ezekiel before the Canadian club, Montreal, Oct. 12. 8 p.

The world's wheat. A radio talk by Mordecai Ezekiel. Sept. 21. 2 p.

Policy of the U. S. Department of Agriculture in reference to research.
By Dr. A. F. Woods, before the Land-grant college meeting, Chicago,
Nov. 13-15. 4 p.

Agricultural Adjustment Administration

Cotton ginnery marketing agreement. 13 p.

Model for marketing agreement - general form. 9 p.

Production adjustment policies under the Agricultural adjustment act. Address
delivered by Chester C. Davis before the annual convention of the National
cooperative milk producers' federation, Chicago, Oct. 9. 12 p.

Statement of general policies governing marketing agreements and codes of
fair competition. 11 p.

Bureau of Animal Industry

Anti-hog-cholera serum requirements. Sept. 29. 5 p.

Bureau of Agricultural Economics

Cotton outlook charts with explanations. 1933-34. 17 p.

Farm real estate taxes, 1913-1932. Middle Atlantic and South Atlantic
states. A preliminary report. By Edmund W. Allin, Donald Jackson,
and Janet L. Weston. Oct. 1933. 4 p. (Issued by Division of agricultural
finance)

Grade of cotton affected by exposure in the field. Prepared by Dorothy
Nickerson. Oct. 12 p. (Issued by Division of cotton marketing)
Based on a lantern slide series entitled "Picking practices affect
market grades of cotton."

The hog situation, Sept. 1933. 9 p.

*Bibliographies included in general list of bibliographies on page 11.

**For a list of the principal series issued regularly, see v.4, no.1-2, p.347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Farmer of Agricultural Economics (continued)

Measures of major importance enacted by the 73d Congress, 1st session, March 9-June 16, 1933. Comp. by Vajen E. Hitz. Oct. 18. 5 p. (Issued by Library)

Recent developments in the domestic cotton industry. Prepared by Frederick V. Waugh, Carl C. Farrington, and Maurice R. Cooper. 12 p.

Romney wool studies, 1930-1933. By James W. Christie. 7 p. (Issued by Division of livestock, meats, and wool)

Tobacco grading service, tobacco market news service. Prepared for distribution at the North Carolina state fair. Oct. 1933. 5 p. (Issued by Tobacco section in cooperation with the North Carolina Division of markets)

United States Grain standards act of August 11, 1916 (39 U. S. Statutes at large, page 482) (U. S. Code, Title 7, chapter 3, sections 71-87) and a compilation of Regulations of the Secretary of Agriculture thereunder, in effect September 1, 1933. 26 p. (Issued by Grain division)

Bureau of Biological Survey

Observations on so-called "bloat" in rabbits. By F. D. McKenney, Agent, Wild life disease investigations. Leaflet Bi-1256. Sept. 1933. 2 p.

Bureau of Chemistry and Soils

The effect of ethylene on immature Japanese persimmons. By C. G. Church. 2 p. (Issued by Laboratory of fruit and vegetable chemistry, Los Angeles, Calif.)

How to prevent sugaring of sugarcane sirup. By C. F. Walton, jr., and E. K. Ventre. 7 p.

Suggestions on making best quality sugarcane sirup, and how to use decolorizing carbon. By C. F. Walton, jr., and E. K. Ventre. 8 p.

Bureau of Dairy Industry

Publications relating to ice cream. Rev. Oct. 1933. 7 p. Dairy library list no. 3. (Issued by Library)

Bureau of Entomology

Insect vectors of the Dutch elm disease. M. W. Blackman. Oct. 24. 4 p. (Issued by Division of forest insects)

Extension Service

4-H club work, 1932. By Florence L. Hall. Sept. 1933. 8 p. Extension service circular 192)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Food and Drug Administration

Memorandum on proposed bill for revising Food and drugs act, indicating differences between bill and present law. 12 p.

Forest Service

Twelfth annual report and program, Appalachian forest experiment station. Report for calendar year 1932 and first half of 1933. Program for fiscal year beginning July 1, 1933. 34 p.

Grain Futures Administration

A chronology of war-time control of wheat prices. 4 p.

Bureau of Plant Industry

Coloring borax-treated citrus fruits. By J. R. Winston. 5 p. (Issued by Division of fruit and vegetable crops and diseases)

Division organization. Reorganization of Division of cereal crops and diseases on a crop project basis. 9 p. (Issued by Division of cereal crops and diseases)

Pasture plants and pasture mixtures suggested for seeding on the acreage taken out of cotton, tobacco, wheat and corn. 5 p. (Issued by Division of forage crops and diseases in consultation with the Replacement section, Production division, Agricultural adjustment administration)

Protecting trees from rabbit injury. Information for owners of cooperative shelter belts and windbreaks. Prepared by the Cheyenne horticultural field station, Cheyenne, Wyoming. 2 p.

Reducing decay in Florida citrus fruits by the use of borax. By J. R. Winston. 8 p. (Issued by Division of fruit and vegetable crops and diseases)

The Agricultural Adjustment Administration is issuing in mimeographed form a digest of its activities under the title "News Digest". The first number appeared September 7, 1933. Up to November 1, three numbers had been issued.

NOTES ON PERIODICALS

New

- The Agricultural digest; a monthly review of agricultural progress and opinion. St. Petersburg, Fla., winter; Salem, Ohio, summer. mo. 12^o. v. 1, no. 1, Feb. 1933.
- D N C; revista do Departamento nacional do cafe. Edificio d' "A Noitre" - 7^o andar. Rio de Janeiro. mo. 8^o. il. ano. 1, no. 1, July 1933.
- Pecan grower. Brownwood, Texas. mo. f^o. v. 1, no. 1, Dec. 1932.
- Washington review and week's work. Chamber of commerce of the United States, Washington, D. C. fortnightly. 4^o. v. 1, no. 1, Sept. 25, 1933.

Changed

- Chemical markets. New York. Changed to Chemical industries with v. 34, no. 4, Oct. 1933.
- Süddeutsche molkerei-zeitung. Kempten im Allgäu. Changed to Deutsche molkerei-zeitung with jahrg. 54, no. 40, Oct. 5, 1933.

Ceased

- Blätter für landwirtschaftliche marktforschung. Berlin. Discontinued with jahrg. 3, hft. 12, May, 1933.
- Fortschritte der landwirtschaft. Berlin und Wien. Discontinued with jahrg. 8, hft. 18, Sept. 15, 1933.
- Progress; science, mechanics, invention. New York. Discontinued with v. 2, no. 3, Aug. 1933.

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EUNICE ROCKWOOD OBERLY MEMORIAL PRIZE

The prize awarded this year by the Eunice Rockwood Oberly Memorial Fund Committee is the fifth since the Committee was formed and is for the best bibliography submitted during the two year period 1931-1932. The prize was established as a memorial to Miss Eunice R. Oberly, formerly Librarian of the Bureau of Plant Industry. Due to the high merit of the twelve bibliographies which were submitted for the fifth prize and the diverse subjects covered by them, the members of the Committee found it particularly difficult to select the one to receive the prize. Two votes of all the members were necessary before a conclusion could be reached. The second vote awarded the prize to Miss Louise O. Bercaw and Miss Esther M. Colvin, members of the staff of the Bureau of Agricultural Economics Library, for their "Bibliography on the marketing of agricultural products" (U. S. Department of Agriculture Miscellaneous Publication No. 150). Honorable mention was also given to the bibliography by Mr. J. D. Wilson, a member of the scientific staff of the Ohio Agricultural Experiment Station, for his bibliography entitled "Environmental factors in relation to plant disease and injury", published as Technical Series, Bulletin No. 9, of the Ohio Agricultural Experiment Station.

The next prize will be for the best bibliography submitted in the biennial period ending December 31, 1934. Competition is open to all library and bibliographical workers in the United States. It is hoped that a larger number will compete for the sixth prize. Further details in regard to the conditions of the prize are available in printed form and may be obtained from the Chairman of the Committee, Claribel R. Barnett.

AGRICULTURAL LIBRARIES SECTION MEETING

The meeting of the Agricultural Libraries Section of the American Library Association was held at the Stevens Hotel, Chicago, Monday afternoon, October 16. There were forty-five in attendance. The Chairman, Miss Cora Miltimore, Librarian, University of Florida, presided. Mr. Angus Fletcher, British Library of Information, New York, introduced Dr. S. S. Nehru, delegate from the All Indian Libraries Federation. Dr. Nehru, who is also President of the Indian Science Congress for Agriculture and Editor of the Rural Uplift, made a brief response.

The principal paper, "The Response of Science to Agriculture", was presented by Dr. J. Christian Bay, Librarian, John Crerar Library. Dr. Bay in a most interesting way surveyed the attempts of science to meet the demands of practical agriculture, as reported in important literature from Aristotle to the present day. Dr. Bay's paper will be published later in full. At the end of his address he distributed to those present copies of a reprint of a very rare pamphlet by John Ingen-Housz entitled "An essay on the food of plants and the renovation of soils." A printed note by Dr. Bay attached to the reprint reads as follows: "Of the original, printed in London, in 1796, two copies are known to exist, one in the British Museum (Natural History), the other in a private library. - See Julius Wiesner, Jan Ingen-Housz, 1905, page 249. This reprint consists of one hundred copies printed in October, 1933 for private distribution."

The Chairman then introduced Mr. Jackson Edmund Towne, Librarian, Michigan State College, who presided at the Round Table. He also gave a summary of his paper on "Books, their disposition and administrative control in State agricultural experiment station libraries," based on the replies to a letter of inquiry sent to State experiment stations. His paper in full follows on page 136.

In the absence of Mr. William Berry Kershaw, Michigan State Library, Mr. James A. McMillen, Louisiana State University, presented Mr. Kershaw's notes on "An Agricultural Periodical of the Civil War Period in the Northern States - The American Agriculturist", as well as his own observations on The Southern Cultivator of the same period in the Southern States. Both Mr. Kershaw and Mr. McMillen pointed out the great value of the early farm periodicals as historical source material, as they picture the evolution of agriculture better than any other printed matter. As they will for that reason always be in demand by research students, the speakers emphasized the duty of agricultural college libraries to make available such material, to increase their collections through the acquisition of complete sets, and to fill gaps in sets already on the shelves.

Professor J. W. Crist, Michigan State College, spoke on "Readings for Graduate Students in the Agricultural Sciences" and distributed mimeographed copies of a reading list which he had compiled. His paper and the list to which it referred are given on page 136.

The business meeting of the Section followed brief discussion of the Round Table topics. Reports were made by the Committee on Cooperative Bibliographical Aid, Miss Louise O. Luceau, Chairman, and by two A. L. A. committees of interest to the Section: The Eunice Rockwood Oberly Memorial Fund Committee, Miss Claribel R. Barnett, Chairman, and the Committee on Cooperation with the American Society for Horticultural Science, Mr. James A. McMillen, Chairman. The following officers were elected: Chairman, Jackson Edmund Towne, Librarian, Michigan State College; Secretary, Miss Cora L. Feldkamp, Librarian, Office of Experiment Stations, U. S. Department of Agriculture.

AGRICULTURAL LIBRARIES SECTION MEETING
(continued)

On Thursday afternoon, October 19, members of the Section had the great privilege of visiting the private library of Dr. C. E. Thordarson. The visit was arranged through the kindness of Dr. J. Christian Bay, who is a personal friend of Dr. Thordarson. A most interesting illustrated description of the library, written by Dr. Bay, is contained in the Papers of the Bibliographical Society of America, vol. 23, pt. 1, 1929, p. 1-17, under the title "Bibliotheca Thordarsoniana, a private collector of scientific and technological literature." The rare books on agriculture contained in the collection constitute an extended chapter in themselves..

Members of the Agricultural Libraries Section also had the honor of receiving an invitation to visit the Morton Arboretum, founded in 1921 by Mr. Joy Morton, son of Hon. J. Sterling Morton, former Secretary of Agriculture and founder of Arbor Day. The Arboretum is a 400 acre tract of land located at Lisle, Illinois, about 25 miles west of Chicago. On account of its distance from Chicago and because of the very full program of the A. L. A., only a few members, unfortunately, were able to make the trip. The Arboretum is a foundation of practical, scientific research work in horticulture and agriculture, particularly in the growth and culture of trees, shrubs and vines. It publishes a Bulletin of Popular Information.

Jessie M. Allen,

Secretary.

BOOKS, THEIR DISPOSITION AND ADMINISTRATIVE CONTROL IN STATE
AGRICULTURAL EXPERIMENT STATIONS

By Jackson E. Towne, Librarian, Michigan State College

At Michigan State College the annual fund allotted from the state agricultural experiment station to the college library has been \$1,000. From this sum, \$660 has been spent for periodicals and \$270 for binding. Only \$50 has been spent for books. Of the periodicals, 14 have been in the field of chemistry.

At first blush it appeared that periodicals were purchased not because of any special need by the station staff for the particular titles involved, but because at one time general library funds were short and the station allotment was conveniently available. A total of 13 chemistry periodicals have been bought from station funds, representing 966 bound volumes.

Over 7000 books and periodicals have been accessioned and added to the so-called Experiment Station Library. The books were separately labeled and given separate indication in the public catalog but they were not shelved collectively, being scattered throughout the classification in the main stack set-up of the main library.

There are over 50 state and insular agricultural experiment stations, and before submitting new recommendations to the local Station Council at Michigan it seemed wise to gather some data regarding expenditures for "library" at other U. S. stations located on college or university campuses or in the same communities.

Because of territorial character or location, Alaska, Georgia, Guam, Hawaii, Minnesota, Ohio, Porto Rico, and the Virgin Islands are eliminated from any consideration to begin with.

BOOKS, THEIR DISPOSITION AND ADMINISTRATIVE CONTROL IN STATE
AGRICULTURAL EXPERIMENT STATIONS
(Continued)

In June, 1932, the latest available U. S. report on agricultural experiment stations was for 1930. Iowa and South Dakota made no stations expenditures for library in 1930. There remained 43 stations, reporting annual library expenditures ranging from Illinois's \$8,000 to Oregon's \$8.00.

The following form letter was sent out:

"Dear Director:

I find that in 1930 the expenditures of your Station 'for additions to equipment' under 'library' were \$_____. Was this money spent only for books, or for other items as well, such as periodicals, binding, library supplies, library service?

Do you have a library housed separately from the college or university library at the institution where your Station is located? If part of the main collection, or of a divisional collection in the field of agriculture, is it shelved separately or has it been assimilated in any way?

Does the authority of the college or university librarian extend over your library? Who decides how your library fund shall be expended each year?

Very truly yours,

Jackson E. Towne, Librarian.

Replies from 43 institutions were ultimately received. Responses were surprisingly prompt, friendly, and in some cases copiously informing. In a few instances it was necessary to make a second and third request for the information, addressing the college librarian directly, and in one instance a visit had to be made to an institution not otherwise prone to answer; but, in general, the response was encouraging, giving much evidence of the progress of library thinking in the minds of at least one type of administrator functioning on or adjacent to 43 American college and university campuses.

One station director wrote:

"Dear Sir:

I have your letter of recent date relative to our Experiment Station Library.

In answer will say that the money spent on our library was for books, periodicals, binding, and library supplies and did not include salaries.

Our Experiment Station Library is housed separately from the main library of the College. It is under an entirely separate management. The College Library has no authority over the Station Library. I am not recommending this as an ideal situation, but I am stating it as a fact.

We have found it necessary here to operate the Experiment Station Library separately for the benefit of the station staff, in order to secure the reference facilities which we need. Our Station Library consists primarily of reference material, particularly material of value to research men.

It is my opinion that under an ideal situation, our Station Library should be a part of and under the supervision of the main Library."

BOOKS, THEIR DISPOSITION AND ADMINISTRATIVE CONTROL IN STATE
AGRICULTURAL EXPERIMENT STATIONS
(continued)

It was found that in 1930, out of a group of 43 stations reporting library expenditures, a total of 36 stations spent money for books; 37 spent money for periodicals; 34 spent for binding; 8 spent for library supplies; 3 spent for library service.

There are 25 agricultural experiment station libraries on college campuses housed separately from the main library; two housed with other books in the main library for departmental collection but shelved separately; and 16 shelved with other books and assimilated with them.

The college librarian's authority extends over 29 agricultural experiment station libraries and does not so extend over 14.

Decisions regarding expenditures of the station library fund appear to rest with the college librarian in 9 instances; with the agricultural or station librarian in 3 cases; with the director of the station in 21 stations; with the college library committee on 8 campuses; and in 2 instances with a separate library committee.

Copies have been made of the 43 letter received at Michigan State College and the library will be glad to loan them to anyone interested. As a sample of the letters an especially interesting communication was that received from the University of Wyoming, because it touches upon possible future additional use of Hatch, Adams and Purnell funds for station purposes;

The University of Wyoming
College of Agriculture and Experiment Station

Laramie, June 18, 1932.

Dear Sir:

The basis of the item of \$750 for library for the Experiment Station at the University of Wyoming for 1930 was based on appropriations by the library to the various departments in the Station for books and periodicals. No charges for the service of a librarian were made in the budget that year, and the items were all for books, periodicals, and binding.

Since 1930 the library budget has received two severe cuts so that in the fiscal year 1932-33 the direct library appropriations that are available for the station will probably be less than half what they were in 1930.

However, we are beginning to buy some of our books and periodicals that are absolutely necessary out of our own contingent funds. In the past these items had been paid for out of state appropriations and were allotted to the various colleges, divisions, and departments of the University including the Experiment Station.

The station library is now housed with the library of the University although some departments keep out a good sized stock of books and periodicals. The station library is not shelved separately except so far as the bound bulletins and scientific periodicals naturally fall into separate shelves.

For about ten years ending in 1922 the station and agricultural college had a library separately housed and in charge of a librarian responsible to the head librarian of the University. However, when our new library was built the station library was merged with the other, and the station no

BOOKS, THEIR DISPOSITION AND ADMINISTRATIVE CONTROL IN STATE
AGRICULTURAL EXPERIMENT STATIONS
(continued)

longer pays the salary of the librarian directly. There is always one librarian on the staff especially charged with keeping up the files of the experiment station and looking after the work and paying particular attention to the interests of the experiment station. However, she is paid from the central library fund and is responsible to the head librarian only. The head librarian of the University is designated in our bulletin as the station librarian.

The President and the Board of Trustees, in making out the budget, decide very largely how much will be spent for the University library. The librarian is allotted this and she then allots this as fairly as she thinks possible among the various departments, and the research departments that are in the Experiment Station share along with the rest whatever cuts are made. Then the department heads spend the money allotted to them as they think best, barring, of course, duplication of books and periodicals by different departments which is prevented by the centrally located and controlled library.

After the funds appropriated by the central library are exhausted heads of the research departments then draw on contingent funds as far as they are available to purchase any books or periodicals that are needed.

This is not a very satisfactory system under the present circumstances when station funds are getting smaller and smaller every year, but it did work quite well when funds from oil royalties were ample and were generously supplied to the library for the purpose of books and periodicals.

I am of the opinion that if state funds continue to be as scarce as they promise to be for the next few years we shall have to reorganize the library appropriation of the Experiment Station. It will have to be taken out of Hatch, Adams and Purnell funds and entered as separate items in the budget so that the director will be sure that the various research departments are not being starved for want of books.

If this is done I believe that we can still use the central library and merge our books with the others. By doing this we are sure that all books are available at all times, and that they are kept catalogued and taken care of. It is probable, however, that we will have to pay the salary of one of the assistant librarians who will have special charge of the station collection.

If it should be necessary to separate the books and the periodicals belonging to the station from those in the general library I think it could be done fairly well by going back to the catalog of the old agricultural library when it was separate and then taking the purchase of the books from the experiment station funds during the past few years. It will be remembered that between 1922 and 1931 practically no books were ordered and paid for from the federal funds for the support of the experiment station.

I do not know whether I have made myself clear or not. One thing should be kept in mind with respect to our situation here and that is that there are no state funds separately appropriated by the legislature for the support of either the agricultural college or the experiment station. Our only separate funds are the federal funds. Any state support of the experiment station is allotted to it by the President and the Board of Trustees from the funds appropriated for the support of the University as a whole.

Very truly yours,

J. A. Hill, Dean and Director.

BOOKS, THEIR DISPOSITION AND ADMINISTRATIVE CONTROL IN STATE
AGRICULTURAL EXPERIMENT STATIONS
(continued)

At Michigan State College the Agricultural Experiment Station Council is composed of the president of the institution, the deans of the divisions of agriculture and home economics and the director of the station, the heads of the departments of agricultural engineering, animal and poultry husbandry, animal pathology, bacteriology, botany, chemistry, dairy, economics, entomology, farm crops, farm management, forestry, publications, sociology, soils, zoology and the secretary of the State Board of Agriculture. For a number of years, the librarian of the college has also been officially designated as the librarian of the station.

The Michigan State College Station Council, after being addressed by its librarian, voted to have the director appoint a committee to confer with the librarian to make a final report for a change in policy before the start of the new fiscal year, July 1st, 1933.

There were several reasons for eliminating the distinction between the Experiment Station Library and the rest of the books at Michigan State College. For instance, a collection of the runs of annual reports of state departments of agriculture and of transactions of state horticultural societies, shelved at one time in the station quarters, was turned over to the main library, but it was felt that the material could not be assimilated. The collection totals about 500 volumes, with over 115 separate titles. A card check list has been made of the material.

The library also has a smaller collection of runs of annual reports of state departments of agriculture and of transactions of state horticultural societies, about 225 volumes, with about 100 titles. These have not been catalogued but a card check list has been made.

If the two collections could be consolidated, the former library collections would augment the items under the various titles in the former station collection by 237; over 100 items in the library collection which duplicate those of the station could be advertised for exchange; and the library collection would supplement that of the station by short runs of 40 additional titles.

It was ultimately found that the periodicals being purchased on station funds were as likely to be consulted for purposes of the station as for instruction in the college.

Two changes in policy have now been adopted, embodied in the two following resolutions, the second of which refers, in part, to the cut in the station allotment necessitated last July: (1) That all separate accessioning and labeling of library books, periodicals and bulletins bought from Experiment Station funds be discontinued, provided a separate order record is kept which will make possible the separation at any time of these publications from others in the library; (2) That the periodicals now purchased from the station allotment be purchased in the future from this sum, the cost of binding to be charged against the general library budget until the station allotment is increased again to cover the amount.

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READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE*

By John W. Crist, Michigan State College, East Lansing, Michigan

The individuals who enter upon graduate work are those who have completed four years of undergraduate requirements. They have read to some extent, but their defect in the consequence of having read what they have read is usually very palpable, in fact, is so obvious that their foundation for advanced endeavor is self-evidently inadequate.

They reveal that they have read too little, too narrowly, too superficially, too dependently, too much as a means to the end of class grades and the attainment of various kinds of practical and professional ability. The graduates of agricultural colleges - the scholls where technology is almost the sole essence of the curricula and, with an occasional exception, the guiding spirits are gryphless ippogryphs - disclose their deficiency quickly and most emphatically. At least they do that with respect to the eyes of those instructors who are products of colleges of liberal arts and sciences and who are now found sprinkled like a condiment over the staffs of the agricultural colleges of the day.

Nine years ago, after considerable experience with budding researchers, I became so impressed with, that I was deeply depressed by, the meager intellectual and cultural background which they possessed. I gathered a bit of data from twenty-five of them - three Canadians and the rest graduates from the colleges of agriculture in ten different states of the Union - and published the result in an issue of Science with the following summary:

"These students were adequately prepared in chemistry alone. Thirty-six per cent had had no college physics and twenty per cent five hours or less in that subject. Twenty-eight per cent had not taken any college mathematics, while twenty per cent had taken five hours or less. Seventy-two per cent of them knew no French, while those without German were seventy-six per cent of the entire number. As to logic and philosophy, their preparation was nil. Furthermore, it was learned by personal inquiry that these same students were almost wholly deficient in the sphere of general cultural reading and had spent their entire time while undergraduates in taking purely practical subjects in their several fields."

It was futile to hope for a correction of the condition, at all immediately, by changes which might be wrought in the undergraduate curricula of our colleges of agriculture. That involves one of the wheels of the gods, in fact, the slowest one of the numerous wheels of the gods of American technology. Suggestions for greater elimination of technical subjects in favor of those which are more abstract, liberal, and fundamental crash upon the eardrums of our administrators like Russian thunderclaps. We must learn to labor, and to wait, and to bootleg what general culture we can, while we wait.

One opening seemed to be that of a list of extraordinary readings which might be urged but not forced upon the students under consideration. After such a list had been prepared and utilized for a year, a very pertinent article appeared in "The Scientific Monthly" (Vol. 21, No. 1, p. 34, 1925). Its title was "The Reading of Graduate Students" and its writer, Dr. Raymond Pearl of Johns Hopkins University. (Dr. Pearl was connected with the Agricultural College of the University of Maine for some time before his move to Johns Hopkins). Two or three short quotations from the article will reveal his viewpoint.

*Paper presented at the meeting of the Agricultural Libraries Section, A. L. A. Conference, Chicago, October 16, 1933.

FINDINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

"It is now quite possible, in fact it probably has been done, for a boy to go straight through from his letter blocks to his Ph. D. with precisely the same kind of cooperation in the enterprise on his part that a sardine furnishes to the business of his translation from the state of innocence and freedom of his birthplace to the diploma-bearing tin on the grocer's shelf. All that is requisite is a certain self-effacing conformity to a series of propulsive mechanisms... In consequence of the widely prevailing pedagogical theory that needlework, jigsawing, salesmanship and many other kindred academic disciplines are of at least equal cultural and intellectual value in the training of our youth to the study of Greek or Latin or Mathematics or Chemistry; coupled with the permission, if not active encouragement to the undergraduate, to specialize during his mental infancy, it results that when the young things begin serious graduate work a solidly grounded general cultural background upon which to build a sound specialism is precisely what, generally speaking, they most completely lack. What then to do? Plainly the obligation is to repair as much as may be of the damage that has been wrought from omission and commission, by putting in the way of the student the means of orienting himself relative to his subject on the one hand and to the general corpus of human learning on the other hand. If he is any good - I mean any real good - he will then guide himself to the technical reading in his chosen special subject better than any one else can do it for him. If he is not any good - I mean again any real good - no harm will have been done. He will at least have glimpsed some little part of the evidence that 'Man's mind a mirror is of heavenly sights, A brief wherein all marvels summ'd lie', and in all probability will ever after lead a better life, even though he fails to become much of a biologist or biometrician."

These were precisely my own observations and ideas; expressed more lucidly and poignantly than was possible for me to have done it. He added the list of selected works which he had finally determined to use. It was divided into three sections, the third and last being connected more directly with his own field of research. These sections were: The Nature, Meaning and Method of Science; The Conduct of Life; Biometry and Vital Statistics. A goodly number of the citations on my more lengthy and less well systematized list were identical with those on his. I was greatly encouraged by his example and proceeded to push the project to a wider limit. It has developed to the point of constant use and gratification.

The list now comprises one hundred and thirty-eight references. By design, it stresses theoretical abstractions, and savors strongly of philosophy from beginning to end. Its major divisions are three in number; (1) The Nature, Meaning and Method of Science; (2) The Conduct of Life; (3) Biology in General. The last of these three is extended by the subsidiary topics: (a) Agriculture; (b) Botany; (c) Horticulture. As yet, I have had no beginning student in graduate study who had read more than three to five per cent of the works on the list.

The first section pertains to an understanding of science in its deepest and broadest technical, metaphysical and historical aspects. The fourteen selections are arranged nearly in chronological order. There is no insistence that the order be followed. The list, including those to follow under other headings, always has been distributed and the readings urged, but no obligation to read has been imposed. It is deemed, however, that since men's conceptions of science and all that pertains to it have

undergone changes and evolution with time, it is desirable to read the list in order and thereby acquire the benefit of comprehending this development. This should create an anticipation of future progress and also a desire to have some part in this advancement. Less attention is given to chronology in the following lists.

The second major section touches the proposition of human living in the world and the individual's place in this vast and intricate web of relationships that we designate as society, The Conduct of Life.

Traditionally, the individuals who earnestly devote themselves to research are notoriously poor livers (and may have poor livers too). They are pictured as being queer recluses whose interest in every-day human affairs is nil or nearly that. While others rustle about, run hither and thither, they stick to their laboratories and help lay the foundations of their respective sciences. Their attitude is more or less objectionable to the average run of their fellow citizens and even of their colleagues. I recall the only serious criticism I ever heard of a certain noteworthy scientist on the college campus where he labored. It was that almost every day he locked himself in his laboratory for several hours and did not come out nor let anyone in. This was sufficient to indict him for being hermitic and undemocratic in this land of the "glad hand" and the effervescent soul, where a hearty slap between the shoulders is a forerunner to selling you something, or taking you into some club or other, or, in short, is the opening act of capitalizing on pretended friendship.

However, in late years, the reclusive type of researchers has been swamped by its opposite type. The field is now dominated by those who strive to be like their fellows in other lines of endeavor. They idealize being well dressed, prosperous looking, well met, optimistic, bubbling men-about-town, who work during a six or eight hour day, sleep another six or eight hours and spend the rest of the time gallivanting about; playing, eating, drinking, voting, investing, praying, begging for charity, boy scouting, Y. M. C. Aing, writing popular articles, making funny speeches, placating the "weaker sex"; in general, angling for a social rating the force of which may bring them grander reputations and higher-salaried positions either in or out of the realm of research. They don't care much where it is so long as there is money, comfort and pleasure.

This last type of demeanor is inimical to the dignity and prohibitive of the achievements of research. It is far less desirable than the traditional form of attitude and behavior. Perhaps neither one is the best that could be, though both of them shall always exist as extremes. The aim in the selection of the citations on "The Conduct of Life" is to aid the reader in avoiding these two extremes (as much as his nature will permit) and to chart a course somewhere near a line equidistant from each one of them and in the same plane; a locus difficult to prescribe and realize.

The third section of the list is on "Biology in General". This is followed by the subsections Agriculture, Botany, and Horticulture. Ordinarily, Biology is defined as the science of life and living objects. The usual custom is to make Zoology and Botany its first main divisions. However, since Agriculture (now having the rank of a science) embodies the subject of animals quite as extensively as it does that of plants, it seems more proper for the present need to give it the next position in the outline and make Botany subsidiary. Liebig said: "Facts are like grains of sand which are moved by the wind, but principles are these same grains cemented

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

into rocks." His excellent remark becomes doubly interesting for Agriculturists when another one of his statements is put with it. He wrote: "Agriculture is, of all pursuits, the richest in facts and the poorest in their comprehension. Perhaps, if a similar criticism should be made today, it would not be without foundation. In a field where the results of research are so immediately related to the world's supply of food, it must be expected that concern for empirical facts as such and their prompt application in the industry will tend constantly to overshadow and crowd out the interest in generalization and delay the rise of basic conceptions. Nevertheless, Agricultural Science is not utterly destitute of principles. Some broad generalizations have been made and established. The selections in the list have been made with a view to works in and through which some of these more comprehensive contributions are set forth. At the same time, the historical, practical, economic, social and romantic aspects of Agriculture have not been left without representation.

The list is, of course, not a perfect one, though as it now stands it is the consequence of several years of trial and error, and an earnestness for making it more effective. No two persons could agree exactly upon the content of such a list, but at least a small fractional part of all the persons engaged in the supervision of graduate work in the Agricultural Sciences would be in unison as to the necessity for something of the kind to aid them in their task. They are aware of and sensitive to the amazing naivety and helplessness of the candidates who come under their care for being transformed into subjects which are fit for the brotherhood of scholarly teachers and investigators. They believe in the potency of directed reading, when the direction is good. They know the power within the library, and appreciate the cooperation of the librarian. They are elated when the librarian understands their need and sees fit to provide what they want and render it easily available for their young, tender, timorous, and oftentimes stupid candidates for advanced degrees.

Recommended List of Readings

I. Nature, Meaning and Method of Science --

- (1) Lucretius. De Rerum Naturae (The Nature of Things). Trans. by John Selby Watson. Poetical Version of John Mason Good. London. Bell and Daldy. 1872.
- (2) Aristotle. Historia Animalium (History of Animals). Trans. by Richard Creswell. (London) George Bell and Sons. 1878.
- (3) Francis Bacon.
 - a) On the Dignity and Advancement of Learning.
 - b) Novum Organum.
- (4) René Descartes. Discours de la méthode pour bien conduire sa raison et chercher la vérité dans les sciences. English translations of good quality are numerous.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (5) David Hume. Essays and Treatises on Several Subjects. (London) Vol. II. pages 3 to 167. 1767.
- (6) John Stuart Mill. A System of Logic, Ratiocinative and Inductive. 2 Vols. 8 th. Ed. (London) Longmans, Green, Reader, and Dyer. 1872.
- (7) W. Stanley Jevons. The Principles of Science, a Treatise on Logic and Scientific Method. (London) 2 Vols. Macmillan and Co. 1894.
- (8) William Whewell. On the Philosophy of Discovery, Chapters Historical and Critical. (London) John W. Parker and Son. 1860.
- (9) William Whewell. History of the Inductive Sciences. 2 Vols. (New York). 1882.
- (10) John Venn. The Principles of Empirical or Inductive Logic. (London) Macmillan and Co. 1889.
- (11) Karl Pearson. The Grammar of Science. 2nd. Ed. (London) 1900.

Pearl says regarding this book: "I first read it the year I began graduate work. It produced at that time such an effect on my intellectual outlook as no other book I had ever read." My own experience was the same. If, as some critics declare, it does lack originality and is not a great book, it, nevertheless, contains the heart of what a researcher should understand for his own good, and furthermore, presents this in such a manner that the effect of it is inescapable.

- (12) H. Poincaré. The Foundations of Science. Trans. by G. B. Halsted. (Science Press). 1913.
- (13) Amasa Stone Mather Memorial Lecture. The Development of the Sciences. (Yale University Press) (New Haven). 1923.
This book, together with the next one, has hardly been in existence long enough to have its merits fully tested. Yet, for the sake of including something in the way of late productions to convey the most modern conceptions of historical and present-day research, they are admitted to the list. The risk taken is probably not very great.
- (14) A. S. Eddington. The Nature of the Physical World. (Cambridge Univ. Press). 1929.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

II. The Conduct of Life.

- (1) Plato. The Republic. The Works of Plato. Trans. by Henry Davis. (London). Henry G. Bohn, Vol. 2. 1854.
- (2) Epictetus. The Works of Epictetus, consisting of His Discourses in Four Books, the Eucheridion and Fragments. Trans. by Thomas Wentworth Higginson. 2 vols. (Boston) Little, Brown and Company. 1891.
- (3) The Private Life of Galileo. (London). Macmillan and Co., 1870.
- (4) James Ratner. The Philosophy of Spinoza. Modern Library. 1927.
- (5) The Memoirs of Benvenuto Cellini. Trans. by Anne Macdonell. Everyman's Library.
- (6) Sir Edwin Arnold. The Light of Asia, or the Great Renunciation. (London). Kegan Paul, Trench, Trübner and Co., 1891.
- (7) Sir David Brewster. Memoirs of the Life, Writings, and Discoveries of Sir Isaac Newton. 2 vols. (Edinburgh). Thomas Constable and Co., 1855.
- (8) Erasmus of Rotterdam. The Praise of Folly. Trans. by John Wilson. Clarendon Press. 1913.
- (9) Miguel de Cervantes Saavedra. Don Quixote of the Mancha. Part I. Trans. by Thomas Shelton 1611. Harvard Classics, Vol. 14.
- (10) Nicolo Machiavelli. The Prince. Trans. By W. K. Marriott. Everyman's Library. No. 280.
- (11) Charles Darwin. The Voyage of the Beagle.
- (12) William Makepeace Thackeray. Vanity Fair.
- (13) Henry Thomas Buckle. History of Civilization in England. 3 vols. (London). Longmans, Green and Co. 1873.
- (14) René Vallery Radot. The Life of Pasteur. Trans. by Mrs. R. L. Devonshire. Doubleday Page and Co. 1923.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (14) Francis Rabelais. The Works of (Five Books of the Heroic Deeds and Noble Sayings of Gargantua and His Son Pantagruel). Trans. by Urquhart and Motteux. Chalon Edition. (London).
- (15) Francois Marie Aronet De Voltaire. Zadig, and other Romances- (containing Micromegas) Trans. by H. I. Woolf. (London) George Routledge and Sons.
- (17) Jean Jacques Rousseau. The Confessions of, Knopf. (New York). 1923.
- (18) Max Brod. The Redemption of Tycho Brake. Trans. by Felix Warren Crosse. Knopf. (New York). 1927.
- (19) Olga Metchnikoff. The Life of Elie Metchnikoff. Houghton Mifflin Co., 1921.
- (20) Gustave Flaubert. Bouvard and Pécuchet. 2 vols. (New York and London). M. Walter Dunne. 1904.
- (21) The Education of Henry Adams (An Autobiography) Houghton Mifflin Co., 1918.
- (22) Maurice Garland Fulton. College Life, Its Conditions, and Problems (A collection of Essays) (New York). The Macmillan Co., 1915.
- (23) H. L. Mencken. Prejudices. Series I-IV. Knopf. (New York)
- (24) Louis Agassiz, His Life and Correspondence. 2 vols. Ed. by Elizabeth Cary Agassiz. (Boston). Houghton Mifflin and Co. 1836.
- (25) Arthur Schopenhauer. The Essays of. Trans. by T. Bailey Saunders. Willey Book Co., (New York).
- (26) Memories of My Life. Francis Galton. (New York) E. P. Dutton and Co., 1909.
- (27) Henry James. The Varieties of Religious Experience-- A Study in Human Nature. (New York) Longmans, Green and Co., 1902.
- (28) Friedrich Wilhelm Nietzsche. Ecce Homo. Zarathustra. The Antichrist. Beyond Good and Evil.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (60) Robert Bridges. The Testament of Beauty. Oxford Univ. Press. 1930.
- (61) Alfred Hayes. The Torch Bearers--II. The Book of Earth. (New York). 1928.
- (62) Dmitri Merejkowski. The Romance of Leonardo Da Vinci. Modern Library. Trans. by Bernard Guilbert Guerney.
- (63) Harvard Classics. Vol. 30. A selection of lectures and articles on scientific subjects by Michael Faraday, Von Helmholtz, Lord Kelvin, Simon Newcomb, and Sir Archibald Geikie.

Shall a part of the researcher's life be given over to the dissemination of scientific knowledge among the laymen of the world? If so, let him first meditate over the content of this book, taking cognizance of these examples of superb literary and oratorical style and masterly popular exposition in order that he may seek to imitate them and be neither a professional clown nor an ultra ponderous bore.

And now, lest research in some particular phase shall wholly consume the man and cause the atrophication of the last one of his more sentimental and human propensities, one more reference is added for his examination and salvation.

- (64) Charles Lamb. The Superannuate.

III. Biology, in general.

- (1) Charles Darwin. The Origin of Species.
- (2) Charles Darwin. The Variation of Animals and Plants under Domestication. 2 Vols. (New York) Orange Judd and Co., 1868.
- (3) August Weissmann. Essays upon Heredity and Kindred Biological Problems. Edited by E. B. Poulton, S. Schlonland and A. E. Shipley. Clarendon Press. 1889.
- (4) Edward Drinker Cope. The Origin of the Fittest. (New York). D. Appleton and Co., 1887.
- (5) William Maddock Bayliss. Principles of General Physiology. (London) Longmans, Green, and Co., 1915.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (6) John Burroughs. The Breath of Life. Houghton Mifflin Co. 1915.
- (7) G. Udny Yule. An Introduction to the Theory of Statistics. (London) Griffin and Co. 7th Ed. 1924.
- (8) Charles Benedict Davenport. Heredity in Relation to Eugenics. (New York). Henry Holt and Co., 1911.
- (9) Hugo De Vries. Species and Varieties, Their Origin by Mutation. Edited by D. T. MacDougal. (Chicago) Open Court Pub. Co., 1905.
- (10) J. B. Lamarck. Zoological Philosophy. Trans. by Hugh Elliot. (London) Macmillan and Co. 1914.
- (11) L. C. Miall. The Early Naturalists, Their Lives and Work (1530-1739). (London) Macmillan and Co., 1912.
- (12) W. Bateson. Mendel's Principles of Heredity. Cambridge Univ. Press. 1909.
- (13) Hans Driesch. The Science and Philosophy of the Organism. 2 Vols. (London). Adam and Charles Black. 1908.
- (14) Henry Fairfield Osborn. Impressions of Great Naturalists. (New York). Charles Scribner's Sons. 1924.
- (15) T. Brailsford Robertson. The Chemical Basis of Growth and Senescence. (Phila and London) J. B. Lippincott Co., 1923.
- (16) Edmund B. Wilson. The Cell in Development and Heredity. 3rd. Ed. (New York). The Macmillan Co., 1925.
- (17) C. Lloyd Morgan. Emergent Evolution. (New York) Henry Holt and Co., 1926.
- (18) Ellsworth Huntington. The Pulse of Progress. (New York). Charles Scribner's Sons. 1926.
- (19) Erik Nordenshiöld. The History of Biology. Trans. by Leonard Bucknall Eyre. (New York and London). Alfred A. Knopf. 1928.
- (20) William Morton Wheeler. The dry-rot of our academic biology. Science 57:61-71. 1923.
- (21) J. Arthur Harris. Mathematics in Biology. Scientific Monthly. August 1928, p. 141.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

A. Agriculture--

- (1) Xenophon. Oeconomicus. Trans. by E. C. Marchant, William Heinemann (London), G. P. Putman's Sons, (New York.) 1923.
- (2) Cato and Varro. Roman Farm Management. Trans. by "A Virginia Farmer." (New York) The Macmillan Co., 1913.
- (3) Junius Moderatus Columella. Of Husbandry in Twelve Books, and his Book Concerning Trees. Printed for A. Miller, (London). 1745.
- (4) d'Olivier de Serres. Le Theatre D'Agriculture et Mesnage des Champs. (Geneve). Pierre et Jaques Chanet. 1639.
- (5) T. R. Malthus. An Essay on the Principle of Population, etc. Ward Lock and Co., (London, New York and Melbourne). 1890.
- (6) Henry Home (Lord Kames). The Gentleman Farmer, etc. W. Greech (Edinburg) and T. Cadell (London), 1776.
- (7) Donald G. Mitchell. Wet Days at Edgewood. (New York) Charles Scribner. 1865.
- (8) Adam Smith. An Inquiry into the Nature and Causes of the Wealth of Nations. 2 vols. Edited by J. E. T. Rogers. Clarendon Press. 1869.
- (9) Alphonse de Candolle, Origin of Cultivated Plants. (New York) D. Appleton and Co., 1890.
- (10) Jethro Tull. The Horse-hoeing Husbandry. (London) William Cobbett. 1829.
- (11) Justus von Liebig. The Natural Laws of Husbandry. Edited by John Blyth. (London) Walton and Maberly. 1863.
- (12) Thomas Nixon Carver. Principles of Rural Economics. Ginn and Co., 1911.
- (13) F. H. King. Farmers of Forty Centuries, or Permanent Agriculture in China, Korea and Japan. (Madison, Wisconsin) Mrs. F. H. King. 1911.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (14) E. W. Hilgard. Soils, Their Formation, Properties, etc. (New York). The Macmillan Co. 1911.
- (15) E. Davenport. Principles of Breeding. Ginn and Co. 1907.
- (16) A. D. Hall. A Pilgrimage of British Farming, (1910-1912). (New York). E. P. Dutton and Co., 1913.
- (17) P--. P. Deherain. Traite'de Chimie Agricole. 2nd. Ed. (Paris) Masson et Cie, 1902.
- (18) Lucius L. Van Slyke. Fertilizers and Crops, or the Science and Practice of Plant-Feeding. (New York) Orange Judd Co. 1912.
- (19) Cyril G. Hopkins. Soil Fertility and Permanent Agriculture. Ginn and Co.
- (20) A. H. Reginald Bulter. Essays on Wheat. (New York). The Macmillan Co., 1919.
- (21) H. H. Mitchell and H. S. Grindley. The Element of Uncertainty in the Interpretation of Feeding Experiments. Ill. Agric. Exp. Sta. Bul. 165. 1913.
- (22) Ole Edvart Rolvaag. Giants in the Earth: A Saga of the Prairie. (New York and London) Harper and Bros. 1927.
- (23) Ernest Brown Babcock and Roy Elwood Clausen. Genetics in Relation to Agriculture. (New York) McGraw-Hill Co., 1918.
- (24) Edward J. Russell. Soil Conditions and Plant Growth. 5th Ed. (London). Longmans, Green and Co. 1927.
- (25) H. L. Shantz and C. F. Marbut. The Vegetation and Soils of Africa. (New York). Nat'l. Res. Council and Amer. Geog. Soc'y. 1923.
- (26) T. A. Kesselbach. Transpiration as a Factor in Crop Production. Nebr. Agri. Exp. Sta. Res. Bul. 6. 1916.
- (27) Luther Burbank and Wilbur Hall. The Harvest of the Years. Houghton Mifflin Co. (Boston and New York) 1927.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (28) Lyman Carrier. The Beginnings of Agriculture in America. (New York) McGraw-Hill Co., 1923.
- (29) Arthur W. Sampson. Livestock Husbandry on Range and Pasture. (New York). John Wiley and Sons. 1928.
- (30) Harry Bates Brown. Cotton-History, Species, etc. (New York). McGraw-Hill Co., 1927.
- (31) Johann Christoph Friedrich von Schiller. William Tell. 1804). Harvard Classics. Vol. 26.

Frequently, this great work of dramatic art is praised for its magnificent theme of liberty. By making use of a world-wide legend the author managed to portray his attitude towards the principles of the French Revolution and also to dramatize the historic effort of the Forest Cantons of Switzerland to achieve freedom from the dominion of Austria. When viewed in the light of the fact that those who struggled to be free were a rustic people--the native landmen of that portion of Switzerland--the drama takes on an aspect that must appeal to the soul of every person who is earnestly associated with the enterprise of Agriculture. It is doubtful if any other literary work in the World equals this one in portraying the beauty of simple country life, the divinity of a deeply perpetuated "love of the land", and the sterling qualities of men whose proud ancestry has been rural in character for many, many generations. Through its revival and presentation in the rural communities of America, the tide of immigration from the farms to the cities might be materially checked.

(B) Botany--

- (1) Theophrastus. Enquiry into Plants. Trans. by Sir Arthur Hoyt. 2 vols. (New York) G. P. Putman's Sons. 1916.
- (2) Les commentaires de M. P. Andre Matthioli sur les six livres de Pedacius Dioscorides. Trans. into French by M. Antoine du Pinet. (Lyon) Claude Rigaud, et Pierre et Claude Rigaud fils. 1642.
- (3) Stephen Hales. Statical Essays. 2 Vols. (London) Printed for W. Innys, R. Haubty and T. Woodward. 1733.
- (4) Carl von Linnæus. Philosophia Botanica. 4th Ed. Studio C. Sprengle. 1809.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

- (5) A. P. de Candolle and K. Sprengle. Elements of the Philosophy of Plants, Containing the Principles of Scientific Botany. Wm. Blackwood (Edinburgh) and T. Cadell (London). 1831.
- (6) Asa Gray. Structural Botany, or Organography on the Basis of Morphology. 3rd Ed. American Book Co., 1879.
- (7) Julius Von Sachs. Lectures on the Physiology of Plants. Trans. by H. Marshall Ward. (Oxford) Clarendon Press. 1897.
- (8) Anton Kerner von Marilaun and F. W. Oliver. The Natural History of Plants. 2 vols. (New York) Henry Holt and Co., 1895.
- (9) A. F. W. Schimper. Plant Geography upon a Physiological Basis. Trans. by Wm. R. Fisher. Clarendon Press. 1903.
- (10) G. Haberlandt. Physiological Plant Anatomy. 4th ed. Trans. by Montagu Drummond. (London) Macmillan and Co. 1914.
- (11) Henry H. Dixon. Transpiration and the Ascent of Sap in Plants. (London) Macmillan and Co. 1914.
- (12) Edward Charles Jeffrey. The Anatomy of Woody Plants. University of Chicago Press. 1917.
- (13) H. A. Spoehr. Photosynthesis. (New York) The Chemical Catalog Co. 1926.
- (14) Frederic E. Clements. Plant Succession and Indicators. (New York). H. W. Wilson Co. 1928.
- (15) A. H. Reginald Buller. Researches on Fungi. 3 vols. Longmans, Green and Co. (London). 1900, 1923, 1924.

READINGS FOR GRADUATE STUDENTS IN AGRICULTURAL SCIENCE
(continued)

(C) Horticulture (Specialized Botany)

- (1) De La Quintinie. The Compleat Gard'ner; or, Directions for Cultivating----- . Trans. by John Evelyn. (London). M. Gillyflower and J. Partridge. 1693.
- (2) Du Hamel du Monceau. La Physique des Arbres. (Paris) H. L. Guerin and L. F. Delatour. 1758.
- (3) ----- . Traite des Arbres Fruitiers ----- . 2 vols. (Paris). 1768.
- (4) Phillip Miller. The Gardener's and Botanists' Dictionary. ----- . 2 vols. (London) 1807.
- (5) Thomas Andrew Knight. Selections from his published Papers. (London). Longmans, Orme, et al. 1841.
- (6) C. M. Hovey. The Fruits of America, ----- 2 vols. (Boston). C. C. Little and Jas. Brown, and Hovey and Co. 1851.
- (7) John Lindley. The Theory of Horticulture, or an attempt to Explain the Principal Operations of Gardening upon Physiological Principles. 2nd. American edition with notes by A. J. Downing. (New York) Wiley and Halstead, 1859.
- (8) J. C. Loudon. The Horticulturist, or an attempt----- . (London) Henry G. Bohm. 1860.
- (9) P. Barry. Barry's Fruit Garden. (New York) Orange Judd Co., 1823.
- (10) Peter Henderson. Handbook of Plants and General Horticulture. (New York) Peter Henderson and Co., 1890.
- (11) Paul Sorauer. A Popular Treatise on the Physiology of Plants. Trans. by F. E. Weiss. (London) Longmans, Green and Co. 1895.
- (12) L. H. Bailey. The Survival of the Unlike. (New York) The Macmillan Co., 1901. Sketch of the Evolution of our Native Fruits. (New York) The Macmillan Co. 1898.

- (13) W. Robinson. The English Flower Garden and Home Grounds. (London) John Murray. 1900.
- (14) A. J. Downing. The Fruits and Fruit-Trees of America ----- 2nd Ed. (New York) John Wiley and Sons. 1900.
- (15) W. H. Chandler. Sap Studies with Horticultural Plants. Mo. Agr. Exp. Sta. Bul. 14. 1914.
This publication marked the opening of the present epoch of laboratory research in Horticulture.
- (16) L. D. Batchelor and H. S. Reed. Relation of the Variability of Yields of Fruit Trees to the Accuracy of Field Trials. Jour. of Agric. Res. 12 (5): 245. 1918.
- (17) E. J. Kraus and H. R. Kraybill. Vegetation and Reproduction, with Special Reference to the Tomato. Oreg. Agr. Exp. Sta. Bul. 149. 1918.
- (18) M. J. Dorsey. A Study of Sterility in the Plum. Genetics 4: 417. 1919.
- (19) The Duke of Bedford and Spencer Pickering. Science and Fruit-Growing. (London) Macmillan and Co. 1919.
- (20) J. T. Rosa, Jr. Investigations on the Hardening Process in Vegetable Plants. Mo. Agric. Exp. Sta. Res. Bul. 48. 1921.
- (21) V. R. Gardner, F. C. Bradford, and H. D. Hooker, Jr. The Fundamentals of Fruit Production. (New York) McGraw-Hill Book Company. 1922.
- (22) Vilmorin (Henry and Phillipe)- Andrieux et Cie. Les Plantes Potageres. 4th ed. (Paris) 1925.
- (23) Lucien Daniel. Etudes sur La Greffe. 2 Vols. (Rennes) 1927 and 1929.
- (24) Frank J. Veinmeyer. Some Factors Affecting the Irrigation Requirements of Deciduous Orchards. Hilgardia 2 (6): 125. 1927.

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WASHINGTON
D. C.

PRINCIPAL LIBRARY ACCESSIONS

Advertising

- OUTDOOR ADVERTISING ASSOCIATION OF NEW YORK. New York state market data, traffic circulation, outdoor advertising. New York, 1933.
- OUTDOOR ADVERTISING ASSOCIATION OF PENNSYLVANIA. A survey of Pennsylvania market data, outdoor advertising circulation, poster advertising information. [Johnstown? 1933]

Agricultural History

- HEDRICK, U. P. History of agriculture in the state of New York. Geneva, New York Agricultural Experiment Station, 1933.

Alcoholic Liquors

- FOSDICK, R. B., and SCOTT, A. L. Toward liquor control. New York, Harper, 1933.
- WAGNER, P. M. American wines and how to make them. New York, Knopf, 1933.

Architecture

- NEWCOMB, REXFORD, and FOSTER, W. A. Home architecture. New York, Wiley, 1932.

Botany

- APPEL, OTTO. Taschenatlas der gemüsekrankheiten. Berlin, Parey, 1933. (Pareys taschenatlanten. 11.)
- BARRETT, M. F. Three keys to wild flowering plants of Connecticut, southeastern New York, New Jersey and eastern Pennsylvania. Bloomfield, N. J., 1933.
- BRAUN, Ernst. Zur pharmakognosie der ericaceen und primulaceen, anatomie des laubblattes. Lörrach-Stetten, 1933. Inaug.-diss. Basel.
- DECKER, SIEGFRIED. Lebensbilder aus der flora Brasiliens. São Leopoldo, Rotermund, 1932.
- GREEN, C. F. The flora of the Liverpool district. Liverpool, Buncle, 1933.
- MOLISCH, Hans. Pflanzenchemie und pflanzenverwandtschaft. Jena, Fischer, 1933.
- PARIS. MUSÉUM D'HISTOIRE NATURELLE. LABORATOIRE DE CRYPTOGRAMIE. Travaux cryptogamiques, dédiés à Louis Mangin. Paris, 1931.
- ROBBINS, W. W., and PEARSON, H. M. Sex in the plant world. New York, Appleton-Century, 1933.
- WENT, F. A. F. C. Lehrbuch der allgemeinen botanik. Vom verfasser aus dem holländischen übersetzt. Jena, Fischer, 1933.

PRINCIPAL LIBRARY ACCESSIONS

(continued)

Bridges

- JERVOISE, EDWYN. The ancient bridges of mid and eastern England. London, Architectural press, 1932.
- JERVOISE, EDWYN. The ancient bridges of the north of England. London, Architectural press, 1932.

Chemistry and Chemical Technology

- HEDGES, E. S. Liesegang rings, and other periodic structures. London, Chapman & Hall, 1932.
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Arkansas

- Clothing: requirements in 4-H clothing demonstrations for older girls.
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- Clothing: care and repair of clothing for the family. R. L. Wolfe.
(Ark. Agr. Col. Ext. 4-H Leaflet 11-W) Fayetteville, 1933.
- Clothing: planning and caring for a child's wardrobe with construction of garments. R. L. Wolfe. (Ark. Agr. Col. Ext. 4-H Leaflet 11-X) Fayetteville, 1933.
- Clothing: wardrobe planning, selection, and construction for the club girl.
R. L. Wolfe. (Ark. Agr. Col. Ext. 4-H Leaflet 11-Y) Fayetteville, 1933.
- Canning of fruits and vegetables. R. Mendenhall and G. Conant. (Ark. Agr. Col. Ext. Circ. 308) Fayetteville, 1933.
- Capon production in Arkansas. G. W. Knox, jr. (Ark. Agr. Col. Ext. Circ. 310) Fayetteville, 1933.
- The preparation of beans and peas in the low cost diet. G. Conant.
(Ark. Agr. Col. Ext. Circ. 312) Fayetteville, 1933.

California

- Nutrition program: vegetable cookery. H. Faust. (Calif. Agr. Col. Ext. H. D. 113, 5th rev.) Berkeley, 1933.
- Nutrition program: food groups and their importance in the diet. H. Faust.
(Calif. Agr. Col. Ext. H. D. 115, 1st rev.) Berkeley, 1933.
- Nutrition program: oven temperatures classification. (Calif. Agr. Col. Ext. H. D. 128, 1st rev.) Berkeley, 1933.
- Clothing project: finishes. E. Dodson. (Calif. Agr. Col. Ext. H. D. 136, rev.) Berkeley, 1933.
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- Clothing program: dry cleaning at home. (Calif. Agr. Col. Ext. H. D. 372, rev.) Berkeley, 1933.
- Child development and parent education program: the home play yard and homemade play equipment. H. Flack. (Calif. Agr. Col. Ext. H. D. 414) Berkeley, 1933. Mimeographed.
- Bartlett pear orchard management. A. Shultis. (California. Agr. Col. Ext. Circ. 78) Berkeley, 1933.

Connecticut

- The tax system of Connecticut. G. B. Clarke. (Conn. Agr. Col. Ext. Bul. 184) Storrs, 1933.
- Insect control in the home garden. T. W. Cocks. (Conn. Agr. Col. Ext. Bul. 185) Storrs, 1933.
- Pruning fruit trees. H. A. Rollins. (Conn. Agr. Col. Ext. Bul. 186) Storrs, 1933.
- Jellies, jams and marmalades. M. E. Dankin. (Conn. Agr. Col. Ext. Bul. 187) Storrs, 1933.

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Connecticut (continued)

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Storrs, 1933.
Summer squash. A. E. Wilkinson. (Conn. Agr. Col. Ext. Bul. 189)
Storrs, 1933.
Sweet corn. A. E. Wilkinson. (Conn. Agr. Col. Ext. Bul. 190) Storrs, 1933.
Lettuce, iceberg type. A. E. Wilkinson. (Conn. Agr. Col. Ext. Bul. 191)
Storrs, 1933.

Delaware

- Chick mortality record. (Del. Univ. Agr. Ext. Information Card 15) Newark,
1933.

Georgia

- Small grains. E. D. Alexander and P. Tabor. (Ga. Agr. Col. Ext. Bul. v. 22,
no. 437) Athens, 1933.

Illinois

- Feeding lambs on Illinois farms. W. G. Kammlade. (Ill. Sta. Circ. 413)
Urbana, 1933.
Agricultural publications, college of agriculture, agricultural experiment
station, and extension service. (Ill. Agr. Col. Ext. [unnumb.]) Urbana,
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Indiana

- Tuberculosis in chickens. L. P. Doyle. (Purdue Univ. Dept. Agr. Ext. Leaflet
124, 4th rev. ed.) Lafayette, 1933.

Iowa

- Management of the bobwhite quail in Iowa. P. L. Errington. (Iowa State Col.
Ext. Bul. 186) Ames, 1933.
The safety bull pen and shed. V. S. Peterson and E. N. Shultz. (Iowa State
Col. Ext. Bul. 187) Ames, 1933.
Buying and feeding baby beeves. R. Beresford. (Iowa State Col. Ext. Bul.
188) Ames, 1933.
Common insects and diseases of the garden. (Iowa State Col. Ext. Bul. 189)
Ames, 1933.
Musical moments: a 4-year music project for Iowa rural communities. F. R. Bu-
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The adjustment and repair of mowers. M. A. Sharp [and others] (Iowa State
Col. Ext. Bul. 192) Ames, 1933.
Patterns in music: a brief study in appreciation for Iowa 4-H club girls.
F. R. Buchanan. (Iowa State Col. Ext. Bul. 193) Ames, 1933.
Controlling cutworms and armyworms. C. J. Drake and H. M. Harris. (Iowa
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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING NOVEMBER 1933
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Louisiana

- Louisiana program for strawberry production. Compiled by G. L. Tiebout.
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- Canning fruits and vegetables at home. L. Stanley. (La. Agr. Col. Ext. Circ. 153) Baton Rouge, 1933.
- Condensed from U. S. Dept. Agr. Farmers' Bul. 1471.
- Program for south Louisiana Irish potato growers. Compiled by G. L. Tiebout.
(La. Agr. Col. Ext. Circ. 154) Baton Rouge, 1933.
- A three-year demonstration of the value of winter legumes in Louisiana.
R. A. Wasson and C. W. Davis. (La. Agr. Col. Ext. Circ. 155) Baton Rouge, 1933.

Massachusetts

- Protect celery against blights. E. F. Guba. (Mass. State Col. Ext. Leaflet 12, rev.) Amherst, 1933.
- Chemical examination of soils. A. B. Beaumont. (Mass. State Col. Ext. Leaflet 56, rev.)
- Facts on lawn management. L. S. Dickinson. (Mass. State Col. Ext. Leaflet 85, rev.) Amherst, 1933.
- Build better babies: food for the infant. M. E. Foley. (Mass. State Col. Ext. Leaflet 127, rev.)

Michigan

- Table service. M. M. Hunter. (Mich. Agr. Col. Ext. Course Notes 41, rev.)
East Lansing, 1933.

Minnesota

- Hitching horses for better implement operation. J. B. Torrance. (Minn. Univ. Agr. Ext. Spec. Bul. 162) University Farm, St. Paul, 1933.
- Use home-grown cereals, wheat, oats, corn; and economical addition to the low cost diet. I. Hobart. (Minn. Univ. Agr. Ext. Folder 43) University Farm, St. Paul, 1933.

Montana

- Clothing construction handbook for Montana home demonstration clubs. J. Pollock.
(Mont. Agr. Col. Ext. Bul. 131) Bozeman, 1933.
- 4-H garden club manual. E. E. Isaac. (Mont. Agr. Col. Ext. Bul. 132)
Bozeman, 1933.
- Luncheon club. M. G. Euren. (Mont. Agr. Col. Ext. Bul. 133) Bozeman, 1933.
- Horses. R. Miller and I. M. C. Anderson. (Mont. Agr. Col. Ext. Bul. 135)
Bozeman, 1933.
- Beef cattle: information on grazing, feeds, wintering, fattening, management, diseases, dehorning, branding, marketing, prices, taxes, as presented at the forty-ninth annual convention, Montana stockgrowers association at Montana state college. A. Atkinson [and others] (Mont. Agr. Col. Ext. Bul. 136) Bozeman, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING NOVEMBER 1933
(Continued)

Montana (continued)

- Duties of 4-H club officers. C. E. Potter. (Mont. Agr. Col. Ext. Bul. 137) Bozeman, 1933.
- The 4-H club girl's special occasion clothes; third year clothing. M. G. Euren. (Mont. Agr. Col. Ext. Bul. 138) Bozeman, 1933.
- Corn growing manual for Montana 4-H clubs. S. L. Sloan. (Mont. Agr. Col. Ext. Bul. 141) Bozeman, 1933.
- Cattle dehorning and branding. I. M. C. Anderson and B. Miller. (Mont. Agr. Col. Ext. Circ. 50) Bozeman, 1933.
- 4-H purebred gilt. I. M. C. Anderson. (Mont. Agr. Col. Ext. Circ. 55) Bozeman, 1933.
- Montana canning time table. F. Smith. (Mont. Agr. Col. Ext. Circ. 57) Bozeman, 1933.

New Hampshire

- Home mixing potato dusts. O. Butler. (N. H. Univ. [Agr.] Ext. Circ. 149) Durham, 1933.
- Spending the clothing dollar. H. E. Hill. (N. H. Univ. [Agr.] Ext. Circ. 150) Durham, 1933.
- Keeping fit. III. Iron builds red blood. E. E. Ellis. (N. H. Univ. [Agr.] Ext. Circ. 152) Durham, 1933.
- Poultry selections and culling. T. B. Charles [and others] (N. H. Univ. [Agr.] Ext. Circ. 153) Durham, 1933.
- The home-made silo. M. F. Abell. (N. H. Univ. [Agr.] Ext. Circ. 154) Durham, 1933.

New Jersey

- Cardboard or tallowy flavors in milk. F. C. Button. (N. J. Agr. Col. Ext. Bul. 110) New Brunswick, 1933.

New York

- Jellies, preserves, and fruit juices. J. A. Boys and F. Fenton. (N. Y. Agr. Col. (Cornell) Ext. Bul. 267) Ithaca, 1933.

Ohio

- Raising chicks. F. E. Cray and C. M. Ferguson. (Ohio Agr. Col. Ext. Bul. 59, rev.) Columbus, 1933.
- Sheep raising in Ohio. L. A. Kauffman. (Ohio Agr. Col. Ext. Bul. 63, 4th ed. rev.) Columbus, 1933.
- The control of garden insects and diseases. T. H. Parks and A. L. Pierstorff. (Ohio Agr. Col. Ext. Bul. 76, rev.) Columbus, 1933.
- Injurious household insects. T. H. Parks and M. P. Jones. (Ohio Agr. Col. Ext. Bul. 97, rev.) Columbus, 1933.
- Poultry farm sanitation and disease control. A. R. Winter. (Ohio Agr. Col. Ext. Bul. 115, rev.) Columbus, 1933.
- Poultry feeding. A. R. Winter. (Ohio Agr. Col. Ext. Bul. 126, rev.) Columbus, 1933.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING NOVEMBER 1933
(Continued)

Ohio (continued)

- Tasty wheat dishes. (Ohio Agr. Col. Ext. Bul. 127 [rev.]) Columbus, 1933.
Fertilizing field crops in Ohio. R. M. Salter and E. Jones. (Ohio Agr. Col. Ext. Bul. 136) Columbus, 1933.
4-H clothing projects; useful articles. B. B. Everhart. (Ohio Agr. Col. Ext. 4-H Circ. 59, reprinted [i.e. rev.]) Columbus, 1933.
It's time to vaccinate against pox. C. M. Ferguson. (Ohio Agr. Col. Ext. Poultry Pointers 10) Columbus, 1933.
Feeding under present feed and egg prices. A. R. Winter. (Ohio Agr. Col. Ext. Poultry Pointers 12) Columbus, 1933.

Texas

- Home tanning of leather. M. K. Thornton. (Texas Agr. Col. Ext. [Circ.] C-99) College Station, 1933.

Wisconsin

- Dramatics for amateur groups. A. F. Wileden [and others] (Wis. Agr. Col. Ext. Circ. 257) Madison, 1933.
Beekeeping methods for Wisconsin. H. F. Wilson. (Wis. Agr. Col. Ext. Circ. 258) Madison, 1933.
Bang's disease (contagious cattle abortion): its control and eradication. W. Wisnicky [and others] (Wis. Agr. Col. Ext. Circ. 260) Madison, 1933.

Wyoming

- Some steps toward greater profits on Wyoming farms and ranches. (Wyo. Agr. Col. Ext. [unnumb.]) Laramie, 1933.

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WALTER OF HENLEY'S TREATISE ON HUSBANDRY

The following article is taken from The Publisher's Weekly for Nov. 25, 1933, p. 1883:

"Missing medieval links in the records of British agricultural development are expected to be revealed as a result of a recent literary find. A fourteenth century manuscript in Walter of Henley's treatise on 'Husbandry' was discovered on the flyleaves of a rental of priory in Hampshire. It is hoped that this discovery will enable the true text of Walter of Henley's book to be ascertained. Most of the existing codices are littered with interpolations. The treatise was in general use as a practical guide to agriculture from the reign of Henry III to that of Henry VIII. In this period agriculture underwent many changes, and the owners of the various extant copies of 'Husbandry' kept on amending them so as to bring them abreast of the times. The present interpolated manuscript is therefore held to be of great value as restoring the original thirteenth century text. The treatise has been exhibited at a meeting of the Royal Historical Society. It is thought that in conjunction with three other works, one by Robert Grosseteste, Bishop of Lincoln, and the other two anonymous, it will furnish the basis for inquiry into the subject of medieval agriculture in Great Britain."

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BIBLIOGRAPHIES

- Cumulative book index; a world list of books in the English language, 1928-1932. New York, H. W. Wilson, 1933. 2298 p.
- Joint reference library, Chicago. Constructive economy in government; a source list. Rev. ed. Chicago, 1933. 11 p.
- Russell Sage foundation. Library. Family budgets and costs and standards of living. New York, 1933. (Bulletin no. 120)
- U. S. Department of Agriculture. Bureau of chemistry and soils. Selected bibliography on metallic contamination of foods, with special reference to containers and cooking utensils. Comp. by V. A. Pease and R. A. Osborn. 1933. 27 p. (Issued by Food research division)
- Weather Bureau. A brief list of works on meteorology. Comp. by Charles Fitzhugh Talman. 2 p. (Reprinted from Monthly Weather v. 61, July 1933, p. 194-195)

An article entitled "The new deal in rural life - a preliminary syllabus for the use of students", by Agnes Boynton and E. L. Kirkpatrick, which appeared in Rural America for November, 1933, is accompanied by a list of useful and up-to-date references.

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NOTES ON PERIODICALS

New

- Acts phytotaxonomica et geobotanica. The Phytogeographical Society Botanical Institute, Faculty of Science, Kyoto Imperial University, Kyoto, Japan. quar. 4°. il. v. 1, no. 1, Apr. 1932.
- Dried fruit record. 580 Market St., San Francisco, Calif. mo. 4°. il. v. 1, no. 1, Aug. 1933.
- Mailed each month to all bona fide producers of dried fruits and to all executive and department heads of the cooperative and commercial organizations engaged in the packing and marketing of dried fruits products. Subscription price 50 cents a year to all others.
- Entomology and phytopathology. Bureau of Entomology, Hangchow, China. 3x a mo. 4°. v. 1, no. 1, Jan. 1, 1933. Text in Chinese.
- Index veterinarius. Imperial bureau of Animal health, Weybridge, Surrey England. quar. 8°. v. 1, no. 1, Apr. 1933. Annual subscription, £ 4.
- NRA reporter. Federal codes, inc., 32 Union Square, New York City, bi-w. 8°. v. 1, no. 1, Oct. 16, 1933. \$5.00 a year.
- Supplement to "A handbook of NRA" compiled by L. Mayers.
- Oklahoma Jersey journal. 215 Alexander Bldg., Tulsa, Okla. mo. f°. il. v. 1, no. 1, Jan. 1933.

Changed

- Der Geflügelbauer. Leipzig. Changed to Bauer u. geflügel... with jahrg. 5, nr. 10, Oct. 15, 1933.

Ceased

- Textile American. Discontinued with v. 60, no. 3, Sept. 1933. Combined with Rayon and synthetic yarn journal, Oct. 1933,

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during November, 1933, exclusive of bibliographies** and current
issues of serials.*

Address by Henry A. Wallace on the National recovery administration and the farmer, over NRC network, Nov. 6, 1933. 7 p.

Address by Henry A. Wallace [describing "war on farm depression"] at the Coliseum, Des Moines, Iowa, Nov. 11, 1933.

Agricultural planning and the new deal. Address by Henry A. Wallace before the Association of land grant colleges and universities, Chicago, Nov. 13, 1933. 13 p.

Emergencies and fundamentals. By H. A. Wallace. Talk at Muncie, Indiana, Nov. 14, 1933. 14 p.

The farmers' problem - everybody's problem. By H. A. Wallace before the Civic forum, Town hall club, New York City, Nov. 24, 1933. 22 p.

Which way, American farmer? Talk by Mordecai Ezekiel before the Open forum, Chicago Sinai congregation, Oct. 30, 1933. 7 p.

Agricultural Adjustment Administration

Agricultural adjustment administration record: hearings, marketing agreements, codes and licenses. No. 1, Nov. 3, 1933. (Issued by Office of the Chief hearing clerk)

Indexed according to docket numbers and commodities including a list of finally approved codes and agreements, and licenses issued thereon.

The recovery program and a new America. Address of Frederic C. Howe before the National outlook conference conducted by the extension division, Bureau of agricultural economics, Nov. 2, 1933. 11 p. (Issued by Consumers' counsel division)

Bureau of Agricultural Economics

Economic factors about the hog industry. By C. A. Burmeister. 10 p. Prepared for the Junior conference, Seventh National 4-H club camp, Washington, D. C., June 16, 1933. (Issued by Division of livestock, meat and wool with Extension service cooperating)

Federal supervision of rice grading. By W. D. Smith. Nov. 1933. 4 p. (Issued by Grain division)

State seed officials. 1933. 6 p. (Issued by Hay, feed and seed division)

*Bibliographies included in general list of bibliographies on page 122.

**For a list of the principal series issued regularly, see v.4, no.1-2, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(continued)

Bureau of Biological Survey

Abstract of fur laws 1933-34. 26 pp. October 1933.

The wild fowl situation in North America. Address by W. C. Henderson at the annual meeting of the National Association of Audubon Societies, at New York City, October 30, 1933. 6 p.

Winter food of the ruffed grouse in the Northeast. Leaflet Bi-1297. October 1933. 2 p.

Feed requirements in raising weaned rabbits to a weight of 6 pounds. By Chas. E. Kellogg, Biologist, Division of Fur Resources. Leaflet Bi-1304. 4 p.

Bureau of Chemistry and Soils

An index of chemicals mentioned in the Review of United States patents relating to pest control, issued in 1931. Comp. by R. C. Roark. 1933. 33 p. (Issued by Insecticide Division.)

Office of Experiment Stations

Home economic research at land-grant institutions, 1933-1934. Comp. by Sybil L. Smith. 1933. 20 p.

Extension Service

Planning a program of extension work for older farm girls. By Margaret Matimer. Oct. 1933. 37 p. Extension service circular 194. (Issued by Office of cooperative extension work.)

Food and Drug Administration

A summary of the new Food and drug bill - S. 1944. Sept. 16, 1933. 2 p.

Why we need a new "Pure food law". Sept. 28, 1933. 2 p.

Testing dried apple products. By B. J. Howard. Oct. 1933. 10 p. (Issued by Microanalytical laboratory, Publication no. 3)

Bureau of Home Economics

Clothing economics. Oct. 13, 1933. 14 p.

Home-made confections. 1933. 10 p. (Issued by Food utilization section)

Bureau of Plant Industry

Savory or aromatic herbs in the kitchen garden. By W. R. Beattie. Nov. 3, 1933. 11 p. (Issued by Division of fruit and vegetable crops and diseases)

Organizations dealing with the handling and merchandising of horticultural products in the United States and Canada. Oct. 1933. 13 p. (Issued by Division of fruit and vegetable crops and diseases)

IMPORTANCE OF PRESERVING HISTORICAL RECORDS FOR AGRICULTURAL RESEARCH

By Everett E. Edwards, Associate Agricultural Economist
United States Department of Agriculture.

Increasingly, the importance of preserving farmers' account books, diaries, letters, and reminiscences for the use of research workers is being realized. Of similar significance are country store account books, mill records, old farm periodicals and rural newspapers, pamphlets, and reports of agricultural and horticultural societies, and pictures of all phases of rural life. These commonplace documents of the past are the necessary sources of information for analyses which historians and economists make of our past agricultural and economic life.

The materials mentioned supply research workers with many facts not obtainable elsewhere. They furnish data indicating the course of farmers' standards of living; they show the influence of the competition of the various agricultural sections, the changing conditions and wages of farm labor, the ups and downs of the various systems of farm management, and the trends of crop acreages. They afford figures on the cost of fertilizers, machinery, twine, and other supplies, and information on yields, disease epidemics, and the dates of the introduction of new varieties and breeds and new cultural practices. The country store records throw light on the spread between rural and city prices and the changing margin between the cost and selling prices. Notable examples of what can be done with this type of price data are Dr. Arthur G. Peterson's "Historical Study of Prices Received by Producers of Farm Products in Virginia, 1801-1927," issued as Virginia Agricultural Experiment Station Technical Bulletin 37, and the Maryland Agricultural Experiment Station Bulletin 321 by Roger F. Hale on "Prices Paid for Maryland Farm Products, 1851-1927." Pamphlets and reports of agricultural societies are indispensable if we are to have accurate accounts of the part they took in political movements, the contributions they made to the social side of rural life, and their attempts at cooperation.

The analyses by agricultural economists and historians offered to us in the form of articles, books, and bulletins have been listed in "A Bibliography of the History of the Agriculture of the United States," by Everett E. Edwards, issued as United States Department of Agriculture Miscellaneous Publication 84. These various studies show us how the present agricultural and economic conditions came about; they emphasize our agriculture as a result of development. They afford perspective, that is, a realization of what are the more permanent and what the more accidental and transient elements of present-day conditions. By reading them, our sympathies are broadened, our judgments steadied, and our experiences enlarged.

Various organizations have taken, and are taking, steps to preserve these materials from which the history of American agriculture may be written.^{1/}

^{1/} A useful statement of the importance of thoughtful and systematic preservation of historical data is given by Solon J. Buck in his article, "The Problem of Adequate Historical Collections," *The Trans-Mississippi West*, edited by James F. Willard and Colin B. Goodykoontz, p. 249-256 (Boulder, Univ. of Colorado, 1930).

IMPORTANCE OF PRESERVING HISTORICAL RECORDS FOR AGRICULTURAL RESEARCH
(continued)

The Library of the United States Department of Agriculture is developing an agricultural history collection as the national center of research in this subject. The Division of Statistical and Historical Research of the Bureau of Agricultural Economics and the Agricultural History Society are cooperating in this undertaking. Gifts and information concerning the location of materials for this collection will be greatly appreciated. Packages should be addressed to the Librarian, United States Department of Agriculture. If desired, franks will be supplied for the packages. In building up its agricultural history collection the Department Library has given special attention to the acquisition of early farm periodicals, the publications of agricultural societies, and early farm periodicals, the publications of agricultural societies, and early books and pamphlets on agriculture published in this country.

The Library also has a special collection of catalogues and other trade publications of firms and individuals engaged in the nursery and seed business which includes over 50,000 items and is probably the largest in the United States. Some of the old catalogues go back to the 18th century. Far from being ephemeral as many may assume, these publications are essential to all research workers who are concerned with the history, nomenclature, description, and distribution of fruits, vegetables and ornamentals. 2/ The provenance of a plant as recorded in a seed catalogue is often a fact of great value, to be readily found nowhere else, and of cardinal importance in tracing hybrid origins. As W. Roberts has said, "The earlier history of most great industrial concerns is largely made up of odds and ends, many of which, lightly regarded at the time, have been destroyed. Those which, by some curious accident, still exist, have become of the highest documentary value. Buckle, in his History of Civilization in England, and Macaulay in his History and Essays found much of their most valuable data in the flotsam and jetsam of literature; and no branch of commercial activity is more dependent for its history on what may be regarded as ephemerides than that which deals with the history of the dealer in seeds and plants. Carlyle has declared that 'ten histories of kings and courtiers were well exchanged against the tenth part of one good History of Booksellers'; and the same,.... might be said of the seedsman and nurseryman." 3/ Since the 1880's the libraries of the Massachusetts Horticultural Society and of Cornell University have also made a systematic collection of trade catalogues. 4/

2/ Claribel R. Barnett, "Horticultural Trade Catalogues," Agr. Libr. Notes 1:76-77 (May, 1926). See also "Presentation of Trade Catalogues," Gardeners' Chronicle 80:41, 42 (July 17, 1926); E. A. Bunyard, "Nurserymen's Catalogues and Their Value," Roy. Hort. Soc. Jour. 51 (1):82-83 (January, 1926); and M. A. Blake, "Old New Jersey Catalogue Proves a Rare Find," N. J. Agr. 5 (12):6, 13 (December, 1923).

3/ "A Seedsman's Broadside," Gardeners' Chronicle 71:54 (Feb. 4, 1922).

4/ Dorothy St. J. Manks, "Trade Catalogues in the Library of the Massachusetts Horticultural Society," Arr. Libr. Notes 3:295-296 (October-December, 1922); Alfred M. S. Pridham, "Collection of Horticultural Catalogues in Cornell University Library," Arr. Libr. Notes 4:328 (January-February, 1929).

IMPORTANCE OF PRESERVING HISTORICAL RECORDS FOR AGRICULTURAL RESEARCH
(continued)

Of the other agencies which are doing substantial work in preserving materials for the history of American agriculture a few may be noted. The Business Historical Society with headquarters in the George F. Baker Library, Soldiers Field, Boston, is actively collecting and promoting the preservation of business records. Its special interest is account books, journals, diaries, letter books, correspondence, indentures, and the countless other records of achievement left by the business men and organizations who laid the foundations of our commercial system. As a pioneer in the field of business research, the Society is the main clearing house for historical business information. 5/

The Western Pennsylvania Historical Survey, financed by the Buhl Foundation, in cooperation with the Historical Society of Western Pennsylvania and the University of Pittsburgh, and under the direction of Professor Solon J. Buck, has undertaken the systematic search for and preservation of the materials relating to the history of Western Pennsylvania. 6/ During the past five or six years the library of the University of Virginia has given special attention to gathering historical material on Virginia. The types of material especially sought include old letters, diaries, records, and manuscripts of original composition; old documents, such as wills and deeds; old Virginia newspapers; and old books and magazines about Virginia, by Virginians, or published in Virginia. The Library of the College of William and Mary has also been assembling materials pertaining to Virginia. 7/

At the University of North Carolina Professor J. G. de Roulhac Hamilton is directing the development of a National Southern Collection. 8/ The garrets of old houses throughout North Carolina are being searched for letters and historical material throwing light on the history of the South. The data has been provided with a fireproof structure and repository at Chapel Hill through an appropriation by the State. Already well over forty thousand pamphlets and volumes relating to Virginia, North and South Carolina, Tennessee and Georgia have been assembled.

5/ See the pamphlet entitled The Business Historical Society, Inc; Purposes, Progress and Membership (George F. Baker Library, Soldiers Field, Boston, Mass., 1933. 24 p.); "Activities of the Business Historical Society," Agr. Hist. 5:182-184 (October, 1931); "Baker Library Business Manuscripts," Agr. Hist. 7:154-155 (July, 1933); Margaret Ronzone Casick (compiler), List of Business Manuscripts in Baker Library (Boston, Mass., Harvard Univ. Grad. School of Business Admin., Library, 1932. 112 p.)

6/ Solon J. Buck, "A Program for Research in Western Pennsylvania History," Western Pa. Hist. Mag. 15:47-62 (February, 1932); Alfred P. James, "Opportunities for Research in Early Western Pennsylvania History," Western Pa. Hist. Mag. 16:127-137 (May, 1933).

7/ "The Virginia Collection at the University of Virginia," Agr. Hist. 4:75-76 (April, 1930). See also Kathleen Bruce, "Materials for Virginia Agricultural History," Agr. Hist. 4:10-14 (January, 1930).

8/ J. G. de Roulhac Hamilton, "Agricultural History Materials and their Collection," Agr. Hist. 4:14-18 (January, 1930). Also his "A National Southern Collection at the University of North Carolina," Baltimore Sun, Mar. 4, 1928. Also "Manuscript Materials," Agr. Hist. 2:159 (July, 1928).

IMPORTANCE OF PRESERVING HISTORICAL RECORDS FOR AGRICULTURAL RESEARCH
(continued)

The University of South Carolina has given attention to the records of old plantations, and Professor E. Merton Coulter of the University of Georgia has a valuable collection of about five thousand similar documents. The agricultural colleges of Cornell University and the University of Wisconsin are utilizing many old farm, mill, and creamery records in long-time price studies. Nearly all of the State historical societies and commissions have done something, and a few of them notable work, in assembling and preserving historical records. The efforts of the State Historical Society of Wisconsin ^{9/} and the Minnesota Historical Society have been predominant in this regard, and their collections include a considerable number of farmers' diaries and similar documents. The McCormick Agricultural Library in Chicago has gathered several hundred thousand items as a result of the foresight and diligence of Mr. Herbert A. Kellar.

In the Southwest, T. C. Richardson, field editor of Farm and Ranch, is head of a committee of the Texas Agricultural Workers Association which is gathering and indexing material bearing on the agricultural, social, and economic development of Texas. Mr. Richardson has spent several years gathering materials for an agricultural history of Texas, and he has offered to use his findings as the nucleus for this collection. Already the literary remains of two horticulturists of international reputation, T. V. Munson and Gilbert Onderdonk, have been secured. ^{10/}

More recently Professor Walter Prescott Webb of the University of Texas has launched plans for a Great Plains History Collection. While it is planned to include materials on the many phases of western life, including transportation, mining, dry farming, and irrigation, the first acquisitions pertain largely to ranching in the Southwest. Already manuscript materials, diaries, account books, business papers, and letters, totaling more than 130,000 documents have been secured. ^{11/}

Having indicated the utility of these materials as sources of information on our agricultural life, it is hardly necessary to plead that they be given to historical collections. To preserve them is to show gratitude,— an appreciation of the generations whose labors are therein recorded. It is also doing a great service to research workers, for they can use them to significant advantage. While the materials may possess a certain value to their owners, their perpetuity should not be menaced by failure to take steps to preserve them from destruction by fire and other disasters. It is hoped that readers of this article who have or know of materials of the kind here discussed will aid historical and economic research by giving them to, or depositing them with historical collections. There they will be classified, filed in fire-proof cases, and made forever accessible to research workers.

^{9/} Joseph Schafer, "A Rural Life Survey of a Western State," The Trans-Mississippi West, edited by James E. Willard and Colin B. Goodykoontz, p. 291-308 (Boulder, Univ. of Colorado, 1930).

^{10/} "Agricultural History in Texas," Agr. Hist. 5:129-130 (July, 1931).

^{11/} "Great Plains History Collection," Agr. Hist. 7:154 (July, 1933); also Southwest.Hist.Quart. 37:73-74 (July, 1933); and J. E. H[aley], Amer. Hist. Rev. 38:847-848 (July, 1933).

CANADA DEPARTMENT OF AGRICULTURE LIBRARY

The Publications Branch, Department of Agriculture, Ottawa, Canada, recently published a pamphlet entitled "The Department of Agriculture, its history, organization and work." The following extract concerning the Library of the Department of Agriculture is taken from the pamphlet: "With the exception of the Experimental Farms, the several branches of the Department of Agriculture are housed in the Confederation Building, Ottawa, where they have at their disposal a well-organized library. This collection of some 67,000 volumes, documents, and periodicals represents official publications from practically all countries having systematized agricultural services. It also includes books of reference on agriculture and allied subjects, and proceedings of scientific societies, congresses and exhibitions.

Specifically, the library contains information on science, meteorology, biology, botany, zoology, nutrition, public health, veterinary medicine, engineering, soils, farm management, plant diseases and pests, field crops, fruit culture, horticulture, live stock, dairying, bees, fur farming, home economics, transportation, technology, manufactures, building, landscape gardening, architecture, economic geography, biography, history of agriculture, economics, statistics, and encyclopedias.

The library aids the officials of the Federal and Provincial Departments of Agriculture, agricultural colleges, research workers on experimental farms and in field laboratories, and others. The library has grown to its present size from its genesis twenty-three years ago in a collection of documents and books accumulated in the Canadian office of the International Agricultural Institute."

THE LIBRARIES OF SOUTH CAROLINA

"The Libraries of South Carolina" is the title of Bulletin 292, October, 1933, of the South Carolina Agricultural Experiment Station. The author is Mary E. Frayser. The following extracts taken from the introductory paragraphs explain the purpose and scope of the study: "Information concerning the origin, development, and number of public libraries in South Carolina and their present status has not been readily available. It is apparent that a careful study of the library situation must serve as a basis for constructive measures to induce adequate library provision and service... It is the purpose of the study to show as accurately as possible the public library and public school library situation as it existed in South Carolina January 1, 1932. Especial consideration has been given to the effect of the library conditions found upon rural life. The data concerning the libraries listed as public were secured by Miss Parmalee Cheves, field agent of the State Library Board, between June, 1930 and February, 1932... The information gathered showed the libraries of the state to fall naturally into four groups: (1) College libraries; (2) Legislative and special libraries; (3) Libraries listed as public; (4) School libraries. Since college libraries are principally for reference and student use, and legislative and special libraries are used only by special-interest individuals and groups, data in regard to them were not studied for this report. This study, therefore, deals only with libraries listed as public and with school libraries. Effort was made to secure information regarding every such book collection in South Carolina."

DUPLICATES

The Iowa State College Library, Ames, will send to any library for the price of transportation the publications listed below.

Wisconsin. Farmers' institutes.

Bulletin no. 2. 1888.

Wisconsin. Geological and natural history survey.

Bulletin, 4, 8, 17, 18, 25, 33, 34, 35, 41, 42, 46 (2 copies), 47-50, 48, 52d, 54a-d, 55, 56a-c (2 copies), 57 pt. 1 & 2 (2 copies), 58, 65 (2 copies), 66 (2 copies), 67, 68 (2 copies), 69 (2 copies), 71 (2 copies).

Soil maps accompany bulletins 47-50, 52a-52d (4 copies), and 56a-56c (2 copies).

Wisconsin. University.

Bulletin. Economic and political science series.

v. 1, no. 1-3.

v. 2, no. 2-4 & index.

v. 3, no. 2.

v. 9, no. 1.

Bulletin. Engineering series.

v. 4, no. 4.

v. 7, no. 5.

v. 8, no. 3.

v. 9, no. 1-3.

Bulletin. History series.

v. 1, no. 1.

v. 3, no. 3.

Bulletin. Science series.

v. 1, no. 1-5.

v. 2, no. 1, & no. 1, 3, 5 & 6.

v. 3, no. 1-4.

v. 4, no. 5, 7, & 9.

Studies in the social sciences and history.

no. 2 & 14.

Wisconsin. University. Business manager.

Report, 1913/14 & 1917/18.

Wisconsin. University. First national university extension conference. 1915.

Proceedings. (3 copies).

Wisconsin. University. Board of regents.

Report, 1914/15-1915/16.

Wisconsin state agricultural society.

Transactions, 1852, 1853, 1861-68, 1869, 1870 (2 copies), 1871 (2 copies), 1872-73 (2 copies), 1873-74 (2 copies), 1874-75 (2 copies), 1875-76, 1876-77 (2 copies), 1877-78 (2 copies), 1878-79 (2 copies), 1879-80, 1880-81, 1883-84, 1885, 1887, 1888, 1889, 1890, 1891, 1892, 1910.

Wisconsin state horticultural society.

Transactions, 1874, 1875, 1877, 1878, 1878/79, 1880/81 (3 copies), 1881/82 (3 copies), 1884 (2 copies), 1885 (2 copies), 1887 (2 copies), 1888, 1891 (2 copies), 1892, 1893 (3 copies), 1900, 1901, 1902, 1903 (2 copies), 1904 (2 copies), 1905 (2 copies), 1906, 1907, 1909, 1914, 1915 (2 copies) & 1916.

